

BEFORE THE
SCIENTIFIC AND MEDICAL ACCOUNTABILITY
STANDARDS WORKING GROUP
OF THE INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE
TO THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
REGULAR MEETING

LOCATION: MIYAKO HOTEL
1625 POST STREET
SAN FRANCISCO, CALIFORNIA

DATE: MAY 9 & 10, 2007

REPORTER: BETH C. DRAIN, CSR
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1 SAN FRANCISCO, CALIFORNIA; WEDNESDAY, MAY 9, 2007

2 04:09 P.M.

3

4 CHAIRMAN LO: WELL, WELCOME EVERYONE. WHY
5 DON'T WE COME ON AND GET STARTED. IT'S REALLY GREAT TO
6 SEE EVERYBODY. I MUST SAY I'M DELIGHTED THAT YOU ALL
7 COULD COME, AND IT'S REALLY WONDERFUL TO SEE EVERYONE
8 AGAIN.

9 I'D LIKE TO OFFICIALLY CALL US TO ORDER, TO
10 WELCOME YOU TO SAN FRANCISCO, TO TELL THOSE OF YOU FROM
11 OUT OF TOWN THAT HAD YOU COME YESTERDAY OR THE DAY
12 BEFORE, IT WOULD HAVE BEEN ABOUT 90 DEGREES AND REMIND
13 YOU OF THE EAST COAST. BUT THIS IS TYPICAL WEATHER.
14 IT MAY CLEAR UP A BIT, BUT THE FOG WILL KEEP YOU COOL.

15 I REALLY DO WANT TO WELCOME YOU AND FIRST
16 JUST SAY THAT SHERRY LANSING, MY CO-CHAIR, CAN'T BE
17 HERE TODAY. SHE'S AT A CANCER FUND-RAISER. SHE WANTED
18 ME PARTICULARLY TO SAY THAT THAT WAS THE ONLY DAY THAT
19 THE OTHER PEOPLE COULDN'T MAKE IT, AND SHE'S EXTREMELY
20 SORRY THAT SHE COULDN'T BE HERE. AND I'M ACTUALLY
21 SORRY AS WELL BECAUSE AS I WAS GOING TO SAY SOME VERY
22 NICE THINGS ABOUT THE AWARD SHE RECEIVED AT THE ACADEMY
23 AWARDS SOME MONTHS AGO WHERE SHE WAS GIVEN A LIFETIME
24 ACHIEVEMENT AWARD, THE JEAN HERSHOLT HUMANITARIAN
25 AWARD. AND IT WAS REALLY WONDERFUL.

1 I HAVE AN 11-YEAR-OLD DAUGHTER WHO MANY OF
2 YOU HAVE HEARD ABOUT IN THE COURSE OF THESE MEETINGS.
3 SHE'S VERY MUCH THE SHE'S COOL; SHE'S NOT IMPRESSED.
4 SHE ACTUALLY WATCHED. "WOW, THAT'S AN IMPRESSIVE
5 WOMAN." I SAID YES. SO JUST A TIP OF THE HAT TO
6 SHERRY LANSING.

7 I ALSO WANT TO SORT OF WELCOME BACK SOME
8 PEOPLE.

9 DR. PRIETO: HELLO.

10 CHAIRMAN LO: HI. WHO IS THIS?

11 DR. LOMAX: CAN YOU HEAR US?

12 DR. PRIETO: YES, I CAN. IS THAT GEOFF?

13 CHAIRMAN LO: FRANCISCO, HI. IT'S BERNIE LO.
14 WE'RE JUST GETTING STARTED. WELCOME. SORRY YOU CAN'T
15 BE HERE, BUT GREAT TO HAVE YOU ON THE PHONE.

16 I JUST WANTED TO SAY --

17 DR. PRIETO: BERNIE, YOUR VOICE IS A LITTLE
18 SOFT. CAN YOU GET CLOSER TO THE MICROPHONE? MUCH
19 BETTER.

20 CHAIRMAN LO: SORRY. I JUST WANT TO SAY A
21 COUPLE THINGS. FIRST, I WANT TO PARTICULARLY WELCOME
22 JANET ROWLEY BACK. I KNOW SHE'S HAD SOME HEALTH
23 PROBLEMS, AND IT'S WONDERFUL TO SEE YOU AGAIN. JOSE
24 CIBELLI FROM MICHIGAN STATE, WHO, AS YOU KNOW, STEPPED
25 DOWN FROM OUR PANEL WHILE HE ACTUALLY ASKED HIS

1 UNIVERSITY TO HOLD AN INVESTIGATION BECAUSE HE WAS ONE
2 OF THE CO-AUTHORS OF THE HWANG PAPER. HE ACTUALLY
3 ASKED MICHIGAN STATE TO CARRY OUT AN INVESTIGATION.
4 THAT HAS BEEN COMPLETED, AND THE MICHIGAN STATE
5 COMMITTEE DETERMINED THAT THERE WAS NO -- THAT JOSE AND
6 HIS LAB WERE NOT RESPONSIBLE FOR ANY OF THE EGREGIOUS
7 MISCONDUCT IN THAT STUDY. AND SO HE'S BEEN CLEARED,
8 AND HE IS GOING TO BE REJOINING THE COMMITTEE, AND
9 WE'RE CERTAINLY GLAD FOR THAT. HE HAD TO SPEND A LOT
10 OF TIME TO CLEAR HIS NAME, BUT I'M GLAD HE DID SO.

11 DR. PRIETO: VERY GOOD.

12 CHAIRMAN LO: OTHER THINGS. AS MANY OF YOU
13 KNOW, ZACH HALL HAS STEPPED DOWN AS PRESIDENT OF CIRM.
14 HE WAS PLANNING TO RETIRE ANYWAY TO HIS FARM IN
15 WYOMING, AND THEN HE HAS HIMSELF SOME HEALTH PROBLEMS
16 THAT ARE GOING TO REQUIRE SOME SURGERY. AND HE STEPPED
17 DOWN EARLY. I JUST WANT TO SORT OF AGAIN A TIP OF THE
18 HAT AND THANKS TO ZACH, THAT I THINK HE GOT CIRM OFF TO
19 A TERRIFIC START. AND I REALLY PERSONALLY FOUND IT
20 WONDERFUL TO WORK WITH HIM, AND THAT HE REALLY DID WANT
21 NOT JUST THE BEST CUTTING EDGE SCIENCE, BUT THE HIGHEST
22 ETHICAL STANDARDS AND SUPPORTED THIS COMMITTEE AND I
23 KNOW DID A LOT OF BEHIND-THE-SCENES WORK WITH GEOFF AND
24 SCOTT AND OTHER OF THE STAFF TO MAKE SURE THAT OUR
25 DELIBERATIONS WERE UNDERSTOOD BY THE ICOC. SO, AGAIN,

1 THANKS TO ZACH, AND WE'LL ALL DESCEND ON HIM IN HIS
2 FARM SOMETIME IN WYOMING.

3 FINALLY, KEVIN EGGAN IS NOT ON THE CALL, BUT
4 I THINK GEOFF ACTUALLY SENT AROUND AN ARTICLE HIS GROUP
5 PUBLISHED IN *NATURE* AND *NEUROSCIENCE* ON USING EMBRYONIC
6 STEM CELLS TO CREATE SCNT-TYPE LINES. AND HE HAS A
7 LINE NOW WITH THAT EXPRESSES THE ALS GENOTYPE, BUT NOT
8 USING OOCYTES, BUT USING THE CYTOPLASM DERIVED FROM
9 EMBRYONIC STEM CELLS. SO THIS IS A POSSIBLE REALLY
10 EXCITING ADVANCE SCIENTIFICALLY.

11 AND THEN, FINALLY, I GUESS I WANT TO CALL
12 THIS -- THERE'S CONFLICT OF INTEREST HERE. I SIT ON
13 THE COUNCIL AT IOM. SO ONE OF THE THINGS I LIKE TO DO
14 IS TELL WHAT NICE THINGS IOM AND NAS DID. AND THERE
15 WAS AN UPDATE OF THE 2005 NATIONAL ACADEMIES GUIDELINES
16 FOR HUMAN EMBRYONIC STEM CELL RESEARCH. AND ACTUALLY
17 IT TRACKS VERY CLOSELY WITH OUR CIRM REGULATIONS, AND I
18 THINK REALLY HELPS TO ESTABLISH THE WORK WE DID AS SORT
19 OF A SET OF GUIDING PRINCIPLES.

20 DR. PRIETO: BERNIE, MY SIGNAL IS FADING OUT.

21 CHAIRMAN LO: EVERY TIME I TURN AWAY, I'M
22 AFRAID YOU END UP NOT HEARING ME. SO YOU ALL HAVE
23 ELECTRONIC COPIES; AND IF ANYONE WANTS A HARD COPY OF
24 THIS, I THINK WE CAN PROBABLY GET THEM FOR YOU.

25 SO I THINK THIS IS A TIME WHERE I THINK WE

1 CAN SORT OF SIT BACK. A NUMBER OF US WERE TALKING
2 AHEAD OF TIME THAT WE'VE DONE A LOT OF GOOD WORK. I
3 THINK THE REGULATIONS THAT WE WORKED SO HARD ON ARE NOW
4 FINAL REGULATIONS. IN ADDITION, CIRM HAS DONE GOOD
5 WORK. THEY'VE APPROVED, I THINK IT'S, 158 MILLION NOW
6 IN GRANTS AT 23 INSTITUTIONS.

7 MR. SHEEHY: ABOUT A HUNDRED FIFTY.

8 CHAIRMAN LO: THE MONEY IS FLOWING. I THINK,
9 YOU KNOW, THE RESEARCH NOW WILL START TO HOPEFULLY
10 REALLY, REALLY TAKE OFF. THERE'S AN ONGOING SET OF
11 SCIENTIFIC AND GRANTS MAKING RESPONSIBILITIES, BUT IT
12 WILL ALL BE DONE IN COMPLIANCE WITH OUR REGULATIONS.
13 WE'LL HEAR MORE ABOUT THE GRANTS ADMINISTRATION
14 TOMORROW MORNING.

15 SO DO WE NEED A FORMAL ROLL CALL? IS THAT
16 WHAT WE NEED TO DO AT SOME POINT?

17 DR. LOMAX: YES. WE SHOULD DO THE ROLL CALL,
18 AND I WILL NOW INITIATE THE ROLL CALL.

19 MARCY FEIT. ROBERT KLEIN. SHERRY LANSING.
20 FRANCISCO PRIETO.

21 DR. PRIETO: HERE.

22 DR. LOMAX: JEFF SHEEHY.

23 MR. SHEEHY: HERE.

24 DR. LOMAX: JONATHAN SHESTACK. ALTA CHARO.
25 BERNARD LO.

1 CHAIRMAN LO: HERE.

2 DR. LOMAX: PATRICIA KING.

3 MS. KING: HERE.

4 DR. LOMAX: TED PETERS.

5 DR. PETERS: HERE.

6 DR. LOMAX: JOSE CIBELLI. KEVIN EGGAN. ANN

7 KIESSLING. JEFFREY KORDOWER. KENNETH OLDEN.

8 DR. OLDEN: HERE.

9 DR. LOMAX: JANET ROWLEY.

10 DR. ROWLEY: HERE.

11 DR. LOMAX: ROBERT TAYLOR.

12 DR. TAYLOR: HERE.

13 DR. LOMAX: JOHN WAGNER. JAMES WILLERSON.

14 CHAIRMAN LO: THANKS.

15 DR. LOMAX: WE HAVE BEEN INFORMED THAT ANN

16 KIESSLING IS EN ROUTE FROM THE AIRPORT, BUT SHE HAS

17 BEEN DELAYED. SHE SHOULD BE JOINING US IN THE NEXT

18 HOUR.

19 CHAIRMAN LO: FOGGY DAYS MEAN YOUR FLIGHTS

20 GOING HOME MAY NOT TAKE OFF ON TIME. SORRY TO SAY.

21 GEOFF, COULD I CALL ON YOU FOR A STAFF REPORT.

22 DR. LOMAX: LET ME KNOW. WE'RE GETTING A

23 TINY BIT OF A FEEDBACK HERE, SO WE'RE GOING TO BACK

24 DOWN ON THE AMPLIFICATION A TINY BIT.

25 DR. PRIETO: MY SIGNAL SEEMS FINE NOW.

1 DR. LOMAX: AGAIN, I'D LIKE TO ECHO BERNIE'S
2 WELCOME. IT IS GOOD TO SEE EVERYONE AGAIN, AND IT'S
3 NICE TO BE ABLE TO REFLECT A LITTLE BIT ON THE WORK
4 WE'VE DONE AND THINK A BIT ABOUT WHAT WE'LL BE DOING IN
5 THE FUTURE. IT WAS A LITTLE BIT OF A TRACK MEET THERE
6 FOR THE FIRST SIX MEETINGS OF THE WORKING GROUP.

7 WHAT I'D LIKE TO DO IS A SHORT, A VERY SHORT
8 PRESENTATION TO GET US UP TO SPEED ON WHAT WE'VE DONE
9 OVER THE -- AND THERE ARE A FEW PIECES OF THE
10 REGULATION THAT ARE STILL OUT THERE IN THE PROCESS. SO
11 JUST ORIENT EVERYONE WHERE WE ARE. THIS IS OUR
12 HISTORIC TIMELINE, WHICH I HOPE YOU'RE ALL FAMILIAR
13 WITH.

14 WE HAD FIVE WORKING GROUP MEETINGS OVER A
15 SIX-DAY PERIOD TO DRAFT OUR REGULATIONS, AND THE VAST
16 MAJORITY OF THAT WORK WAS DONE IN 2005. WE ALSO HAD
17 THE PUBLIC WORKSHOPS AND A MEETING WITH THE
18 INSTITUTIONAL WORKSHOPS IN DECEMBER OF THAT YEAR. THIS
19 ALL CULMINATED WITH THE ICOC APPROVAL OF OUR INITIAL
20 DRAFT OF THE REGULATIONS IN FEBRUARY 2006.

21 DR. PRIETO: GEOFF, IS THIS THE POWERPOINT?

22 DR. LOMAX: YEAH. DO YOU HAVE THAT ONE? I'M
23 NOT SURE YOU DO ACTUALLY.

24 DR. PRIETO: THIS IS NOT THE OVERVIEW OF THE
25 NATIONAL ACADEMIES ONE?

1 DR. LOMAX: NO.

2 DR. PRIETO: OKAY.

3 DR. LOMAX: I COULD HAVE FORWARDED THAT TO
4 YOU, BUT THIS IS JUST THAT TIMELINE THAT WE'VE
5 HISTORICALLY USED TO TALK ABOUT OUR WORK PLAN. BEAR
6 WITH US. HOPEFULLY IT WILL MAKE SENSE ORALLY. THERE'S
7 NOTHING TERRIBLY COMPLICATED HERE.

8 DR. PRIETO: OKAY.

9 DR. LOMAX: AFTER THE ICOC APPROVAL, WE
10 SUBMITTED THE ACTUAL REGULATORY PACKAGE WHICH WE, THE
11 COLLECTIVE WE, SCOTT, I THINK, WAS REALLY RESPONSIBLE
12 FOR A TREMENDOUS EFFORT THERE OF TAKING THE REGULATIONS
13 AND PUTTING IT INTO A FORMAT IN WHICH THE OFFICE OF
14 ADMINISTRATIVE LAW WOULD APPROVE AND ALLOW US TO
15 INITIATE OUR RESPONSIBILITIES UNDER THE ADMINISTRATIVE
16 PROCEDURE ACT.

17 SO ON MARCH 17TH WE HAD AN INITIAL ROUND OF
18 PUBLIC COMMENTS. WE RECEIVED CONSIDERABLE VOLUME OF
19 PUBLIC COMMENTS IN THAT MARCH THROUGH MAY PERIOD. AND
20 THEN IF YOU WILL REMEMBER, WE HAD A SERIES OF TELEPHONE
21 MEETINGS TO RESOLVE ISSUES THAT CAME UP AS A RESULT OF
22 PUBLIC COMMENTS. WE MADE MODIFICATIONS TO LANGUAGE IN
23 THE REGULATIONS, AND THEN WE REFERRED -- WE HAD, IN
24 FACT, FOUR ITERATIONS WHERE WE PUT IT OUT TO COMMENT,
25 GOT SOME COMMENTS, MADE SOME CHANGES, PUT IT BACK OUT

1 TO COMMENT, MADE SOME ADDITIONAL CHANGES, OUT AGAIN,
2 FINALLY BACK TO THE ICOC IN AUGUST WHERE THEY APPROVED
3 THE LANGUAGE WE HAD SUBMITTED.

4 THAT WENT INTO THE FORMAL OFFICE OF
5 ADMINISTRATIVE LAW REVIEW AND APPROVAL WHERE THEY SORT
6 OF NOW LOOK AT EVERYTHING COLLECTIVELY, THE
7 REGULATIONS, THE COMMENTS, THE RESPONSE TO COMMENTS,
8 EVERYTHING WE HAD DONE, AND THEY HAD AN ADDITIONAL 60
9 COMMENTS WHICH WE HAD TO ADDRESS. SO THAT WAS ANOTHER
10 ROUND OF CLARIFICATION, CLEANING UP THE RECORD, MAKING
11 EVERYTHING CLEAR FOR THE OFFICE OF ADMINISTRATIVE LAW.
12 AND WE GOT THE LETTER THAT SAID ON THE 10TH OF OCTOBER
13 YOUR REGULATIONS BECOME FORMAL STATE LAW. AND I THINK
14 YOU ALL GOT AN E-MAIL FROM ME WHICH REPRESENTED A
15 COLLECTIVE SIGH OF RELIEF.

16 IN ADDITION, IN SEPTEMBER WE HAD THE IOM
17 WORKSHOP DEALING WITH OOCYTE DONATION AND STEM CELL
18 RESEARCH. DR. LINDA GUIDICE WILL BE REPORTING ON THOSE
19 FINDINGS TODAY. THAT WILL BE THE MAJOR PORTION OF
20 TODAY'S MEETING.

21 THIS IS NOW TO KIND OF GET YOU UP TO SPEED ON
22 WHAT WE'VE BEEN UP TO FOR THE LAST FEW MONTHS. A
23 REMINDER, WE HAD A TELECONFERENCE IN OCTOBER, YOU
24 REMEMBER, AND THAT'S WHERE WE DISCUSSED FETAL TISSUE
25 REGULATION. THAT REGULATION IS NEARING THE END OF ITS

1 LIFE CYCLE AND HOPEFULLY WILL BECOME STATE LAW FAIRLY
2 SOON. THE ICOC IN DECEMBER APPROVED THE LANGUAGE THAT
3 YOU ALL RECOMMENDED.

4 AND THEN I'D LIKE TO SORT OF DRAW YOUR
5 ATTENTION TO THAT SORT OF LONG BLUE BAR, WHICH IS AT
6 THE END OF LAST YEAR, WE STARTED WHAT'S DESCRIBED AS A
7 CIRM EVALUATION INITIATIVE. IN YOUR PACKET YOU HAVE
8 THE FOUR-PAGE WHITE PAPER. YOU RECEIVED THAT
9 PREVIOUSLY, BUT AN ADDITIONAL COPY IS IN YOUR PACKET.

10 WHAT THAT INITIATIVE WAS ORIENTED TOWARDS IS
11 GOING OUT TO MEET WITH INSTITUTIONAL REPRESENTATIVES,
12 CHECKING IN, AND REALLY STARTING TO UNDERSTAND, OKAY,
13 WE'VE PUT REGULATIONS OUT THERE. YOU ALL ARE TAKING
14 THEM VERY SERIOUSLY. YOU'RE IN THE MIDST OF DEVELOPING
15 GRANT PROPOSALS. IS THERE ANYTHING HERE THAT'S CLEAR,
16 THAT'S NOT CLEAR? WE'RE TRYING TO REALLY GROUND TRUTH
17 THE WORK WE'VE DONE IN TERMS OF IMPLEMENTATION. HOW'S
18 IT WORKING?

19 THE SORT OF FOCUS WITH THE INSTITUTIONS WAS A
20 SERIES OF WORKSHOPS, ONE AT STANFORD AND ONE AT THE
21 BURNHAM INSTITUTE ON THE SAN DIEGO PENINSULA. SORT OF
22 MEAT OF THAT EFFORT, THE FINDINGS, THERE'S A REPORT IN
23 YOUR BINDER, BUT THE BIG PART OF MY PRESENTATION
24 TOMORROW WILL REALLY GO INTO MUCH MORE DETAIL IN TERMS
25 OF SOME OF THE LESSONS LEARNED, AND THAT WILL BUILD UP

1 TO A CONVERSATION OF POLICY ISSUES WE MAY WANT TO
2 CONSIDER IN THE FUTURE. I WOULD LIKE TO CHARACTERIZE
3 IT AT THIS POINT AS WE'VE KIND OF PUT OUT A PRODUCT
4 THAT APPEARS TO BE RATHER EFFECTIVE, BUT WE MIGHT NEED
5 TO DO SOME TINKERING AROUND THE EDGES. SO I WILL
6 PRESENT SOME OF THOSE ISSUES TO YOU.

7 IN THE MEANTIME THE LITTLE BLUE CIRCLES DOWN
8 THERE, AS BERNIE MENTIONED, WE'VE HAD TWO GRANT REVIEWS
9 AND THE ICOC APPROVED FOR FUNDING -- I BELIEVE THAT'S
10 THE CORRECT NUMBER -- ABOUT 150 MILLION. AM I GETTING
11 THAT NUMBER RIGHT? AND LET'S SEE. THAT BRINGS US UP
12 TO WHERE WE ARE TODAY, OUR ANNUAL MEETING, WHICH A
13 COUPLE OF PEOPLE HAVE QUESTIONED WHY ARE WE CALLING IT
14 THE ANNUAL MEETING? THERE IS ACTUALLY A PROVISION IN
15 PROPOSITION 71 THAT SAYS THIS WORKING GROUP SHALL HAVE
16 AN ANNUAL MEETING. SO THIS IS WHAT WE'RE CALLING IT.
17 THIS IS THE ANNUAL MEETING.

18 SO JUST TO SUMMARIZE NOW, JUST TO FOCUS ON
19 THE REGULATORY ISSUES, AS I MENTIONED, WE GOT APPROVAL
20 IN OCTOBER. I MISSPOKE. THEY FORMALLY TOOK EFFECT ON
21 THE 22D OF NOVEMBER. THAT WAS THE ENTIRE REGULATORY
22 PACKAGE. THERE WERE A COUPLE OF SECTIONS IN THERE
23 WHICH WE RAN INTO INSURMOUNTABLE OBSTACLES WITH THE
24 OFFICE OF ADMINISTRATIVE LAW. ONE WAS SECTION 1000120
25 WHICH DEALS WITH RECORDKEEPING. WE'VE SUBSEQUENTLY

1 REVISÉ THAT SECTION AND RETURNED IT TO THE OFFICE OF
2 ADMINISTRATIVE LAW. OUR LAST CHECK ON THAT IS IT IS
3 SORT OF JUST SITTING IN THE OFFICE OF ADMINISTRATIVE
4 LAW. SOMETIMES REGULATIONS HAVE A HABIT OF GOING IN,
5 AND YOU KIND OF HAVE TO NUDGE THEM OUT, SO WE'VE SORT
6 OF INITIATED THE NUDGING PROCESS, AND WE'RE HOPING TO
7 HEAR BACK SHORTLY.

8 THERE WAS ANOTHER SECTION, 100130, THAT WAS
9 THE SECTION, IF YOU WILL REMEMBER, WE ORIGINALLY HAD
10 SOME VERY EXTENSIVE LANGUAGE ABOUT MATERIAL SHARING,
11 MATERIALS DERIVED WITH CIRM FUNDING, HOW THEY SHOULD BE
12 PUT OUT TO OTHER RESEARCHERS. AND THEN AS THAT
13 CONVERSATION MOVED FORWARD, WE THEN INITIATED AT CIRM A
14 PROCESS TO DEVELOP AN IP POLICY OR AN INTELLECTUAL
15 PROPERTY POLICY. THAT WHOLE NEW INITIATIVE TOOK OFF IN
16 THAT AREA. WE'RE GOING TO GET AN UPDATE TOMORROW ON
17 THE IP POLICY. AND AS A RESULT, IT REALLY NULLIFIED
18 THE NEED FOR THIS GROUP TO BE SORT OF DEVELOPING
19 LANGUAGE IN THAT AREA. IT WAS CLEARLY A MUCH BIGGER
20 ISSUE THAN WE COULD DEAL WITH INDEPENDENTLY. SO YOU
21 WILL GET AN UPDATE TOMORROW FROM MARY MAXON ON THAT
22 EFFORT.

23 AGAIN, THE REVISIONS TO SECTION 100120
24 APPROVED BY THE ICOC ON THE 12TH OF DECEMBER, AS I
25 MENTIONED, THEY'RE UNDER OAL REVIEW.

1 FINALLY, THE FETAL TISSUE SECTION, WHICH I
2 MENTIONED EARLIER, THE COMMENT PERIOD CLOSED WITHOUT
3 ANY PUBLIC COMMENT. AND WE SHOULD BE ABLE TO MOVE THAT
4 INTO THE FINAL STAGE OF OAL APPROVAL PENDING APPROVAL
5 BY THE ICOC AT ITS JUNE 4TH MEETING. THE ICOC IS
6 MEETING ON JUNE 4TH AND 5TH NEXT MONTH, AND WE'RE NOW
7 PLANNING ON BRINGING THAT TO THE ICOC ON THE 4TH, NOT
8 THE 5TH.

9 AS SOME YOU HAVE MET TAMAR. WE NOW HAVE A
10 CHIEF LEGAL COUNSEL. LORI HOFFMAN IS OUR ACTING
11 PRESIDENT, AND I'D LIKE TO INTRODUCE YOU TO LORI.
12 ALSO, OUR ARLENE CHIU IS THE INTERIM CHIEF SCIENTIFIC
13 OFFICER. ARLENE IS NOT WITH US TODAY, BUT THAT COVERS
14 OUR EXECUTIVE STAFF, WHICH YOU'VE NOT MET YET.

15 AND, AGAIN, THE ICOC MEETS ON JUNE 5TH. AND
16 IN ADDITION TO CONSIDERING OUR FETAL TISSUE REGULATION,
17 WHICH IS PERHAPS THE MOST RIVETING PART OF THE AGENDA,
18 THEY WILL ALSO BE CONSIDERING THE RECOMMENDATIONS OF
19 THE PRESIDENTIAL SEARCH SUBCOMMITTEE, SO THAT GIVES YOU
20 A SENSE OF THE TIMELINE FOR A NEW PRESIDENT.

21 FINALLY, I'D LIKE TO DRAW YOUR ATTENTION TO
22 SOME MATERIALS THAT WE'VE PUT TOGETHER OR THAT ARE
23 AVAILABLE. YOU SHOULD HAVE RECEIVED A MEMBER MANUAL,
24 WHICH THE MEMBER MANUAL, I DON'T HAVE IT ILLUSTRATED
25 HERE IN THE GRAPHICS, BUT THAT WOULD INCLUDE ALL THE

1 MATERIALS YOU ALL ARE INTERESTED IN OR MAY REQUIRE AS A
2 WORKING GROUP MEMBER. IT INCLUDES A NUMBER OF THE
3 POLICIES, CONFLICT OF INTEREST, AND THAT SORT OF
4 DOCUMENTATION. IN ADDITION, WE PUT TOGETHER ALL THE
5 INFORMATION, I THINK, THAT'S SORT OF SUBSTANTIVE THAT
6 RELATES TO THE REGULATIONS. I HOPE THAT'S A USEFUL
7 RESOURCE.

8 IN ADDITION TO THE MANUAL, THERE WAS A CD
9 THAT WENT WITH THAT, AND THE CD INCLUDED ALL THE
10 ADDITIONAL DOCUMENTATION SORT OF SUPPORTING OUR
11 REGULATIONS. IT'S VERY GOOD BEDTIME READING. AGAIN,
12 WE WANTED TO MAKE THAT AVAILABLE TO YOU. IF FOR SOME
13 REASON YOU REQUIRE AN ADDITIONAL COPY OR DID NOT
14 RECEIVE YOUR COPY, WE CAN PROVIDE THAT TO YOU TODAY.

15 IN ADDITION, YOU HAVE A COPY IN YOUR BINDER
16 OF THE FINAL REPORT FROM THE IOM RELATING TO EGG
17 DONATION. THE CIRM STRATEGIC PLAN WAS INCLUDED IN THE
18 CD WHICH I MENTIONED, AND THE CIRM ANNUAL REPORT IS
19 ALSO INCLUDED. AND WE CAN PROVIDE YOU WITH PRINTED
20 COPIES OF THOSE DOCUMENTS IF YOU REQUIRE THEM AS WELL.

21 SO WITH THAT SAID, THAT'S MY REPORT FOR NOW.
22 AGAIN, I THINK THE MEAT OF THE STAFF CONTRIBUTION TO
23 THIS MEETING WILL BE TOMORROW WHEN WE SUMMARIZE THE
24 FINDINGS FROM OUR EVALUATION INITIATIVE. AND I'M
25 NOTICING THAT LINDA HASN'T ARRIVED. EXCUSE ME. I

1 APOLOGIZE.

2 CHAIRMAN LO: SHE'S READY TO GO. BEFORE WE
3 CALL LINDA, I JUST WANT TO ASK LORI. DO YOU WANT TO
4 SAY ANYTHING TO THE COMMITTEE OR TAMAR, GREETINGS,
5 WHATEVER? GLAD TO HAVE YOU BOTH, AND WE LOOK FORWARD
6 TO WORKING WITH YOU.

7 SO, GEOFF, MY COPY OF THE -- OUR NEXT ORDER
8 OF BUSINESS IS TO TURN TO THE REPORT, "ASSESSING THE
9 MEDICAL RISKS OF HUMAN OOCYTE DONATION FOR RESEARCH."
10 THIS WAS A WORKSHOP CARRIED OUT UNDER THE AUSPICES OF
11 THE INSTITUTE OF MEDICINE AND THE NATIONAL ACADEMY OF
12 SCIENCES. CIRM ACTUALLY CONTRACTED WITH IOM, NAS TO
13 CARRY OUT THIS REPORT. AND I THINK THE REASON CIRM
14 WANTED TO DO THAT IS TO REALLY HAVE AN OBJECTIVE,
15 BALANCED, AND PEER REVIEWED REPORT SO THAT IT WOULD
16 STAND UP UNDER CLOSE SCRUTINY.

17 NOW, THIS IS A WORKSHOP WHICH UNDER INSTITUTE
18 OF MEDICINE AND NATIONAL ACADEMY RULES MEANS THAT THERE
19 ARE NO RECOMMENDATIONS, BUT IS A TRANSCRIPT OF THE
20 PRESENTATIONS THAT WERE MADE IN A PUBLIC MEETING AND
21 INCORPORATES BOTH THE PRESENTATIONS AND THE EXTENSIVE
22 DISCUSSION AT THAT MEETING.

23 THE CHAIR OF THIS WORKSHOP COMMITTEE WAS DR.
24 LINDA GUIDICE FROM UCSF WHERE SHE'S THE CHAIRPERSON OF
25 THE DEPARTMENT OF OBSTETRICS, GYNECOLOGY, AND

1 REPRODUCTIVE SCIENCES. AND SHE ALSO HOLDS THE ROBERT
2 JAFFE CHAIR IN REPRODUCTIVE SCIENCES. AND SHE IS A
3 REPRODUCTIVE ENDOCRINOLOGIST WHO CARRIES OUT AN ACTIVE
4 RESEARCH PROGRAM ON TOP OF HER ADMINISTRATIVE DUTIES.
5 AND SHE AND HER COMMITTEE, I THINK, PUT TOGETHER AN
6 EXCELLENT MEETING AND HAVE PREPARED A REPORT, WHICH SHE
7 WILL NOW GIVE US THE HIGHLIGHTS OF. AND WE WILL BE
8 DRAWING HEAVILY ON THIS REPORT FOR ANOTHER ACTIVITY
9 THAT WE WOULD LIKE THE WORKING GROUP TO HELP PLAN.

10 SO, LINDA, IT'S A PLEASURE FOR US FOR YOU TO
11 BE HERE. AND ONCE AGAIN, WE THANK YOU, AS THE ENTIRE
12 FIELD, FOR THE REPORT WHICH IS VERY INFORMATIVE AND
13 VERY CLEAR AND I THINK VERY USEFUL.

14 DR. GUIDICE: THANK YOU, BERNIE. IT'S A
15 PLEASURE TO BE HERE TODAY. I AM GOING TO GO THROUGH
16 GIVING AN OVERVIEW OF A BACKGROUND OF SOME OF THE
17 PROCEDURES THAT SUBJECTS WHO ARE DONATING OOCYTES FOR
18 RESEARCH --

19 DR. PRIETO: COULD THE SPEAKER BE CLOSER TO
20 THE MICROPHONE AGAIN, PLEASE?

21 DR. GUIDICE: SURE. IS THAT BETTER? OKAY.
22 I'M GOING TO GIVE AN OVERVIEW OF SOME OF THE PROCEDURES
23 THAT SUBJECTS UNDERGO AND ALSO WOMEN UNDERGO FOR
24 FERTILITY THERAPY WITH REGARD TO RETRIEVING EGGS.

25 SO AS BERNIE HAS MENTIONED, WE WERE ASKED TO

1 PUT TOGETHER A COMMITTEE AND ALSO -- I'M SORRY -- A
2 WORKSHOP AND A REPORT. AND THE COMMITTEE MEMBERS WERE
3 CHOSEN BY PRIMARILY THE INSTITUTE OF MEDICINE AND THE
4 NATIONAL RESEARCH COUNCIL AND THEIR ADVISORS. AND AS
5 I'M SURE YOU KNOW, THE IOM IS AN ORGANIZATION WHOSE
6 MISSION IS TO ADVISE THE NATION AND IMPROVE HEALTH.

7 THE ROSTER, COMMITTEE ROSTER, LIST MEMBERS
8 HERE. SOMEONE HAS FALLEN OFF THIS. THAT'S DR.
9 MARCELLE CEDARS FROM UCSF, SO SHE SHOULD BE RIGHT ABOVE
10 DR. DAVIDSON. SO THERE'S MYSELF AS CHAIR AS A
11 REPRODUCTIVE ENDOCRINOLOGIST; DR. MARCELLE CEDARS, WHO
12 IS THE DIVISION CHIEF OF REI, REPRODUCTIVE ENDOCRINE
13 AND INFERTILITY, AT UCSF. DR. DAVIDSON, EZRA DAVIDSON,
14 WHO IS A GENERALIST OB-GYN AND A LONGTIME MEMBER OF THE
15 INSTITUTE OF MEDICINE, AND HAS SAT ON MANY COMMITTEES
16 AND IS VERY FAMILIAR WITH COMMITTEE PROCESS. NAIHUA
17 DUAN IS A BIOSTATISTICIAN. BERNIE HARLOW IS AN
18 EPIDEMIOLOGIST. SUSAN KLOCK, A PSYCHOLOGIST WHO HAS
19 WORKED PRIMARILY WITH EGG DONORS. JUDITH LA ROSA, HER
20 EXPERTISE IS IN WOMEN'S HEALTH BROADLY SPEAKING. SHE'S
21 A PHYSICIAN. CATHERINE RACOWSKY IS AN EMBRYOLOGIST
22 WORKING WITH HUMAN EGGS AND SPERM AND EMBRYOS. ZEV
23 ROSENWAKS IS A REPRODUCTIVE ENDOCRINOLOGIST WORKING AT
24 CORNELL. AND JOE LEIGH SIMPSON IS ALSO A REPRODUCTIVE
25 ENDOCRINOLOGIST AND A GENETICIST AND ALSO A MEMBER OF

1 THE IOM AS IS ZEV ROSENWAKS.

2 THE STATEMENT OF OUR TASK WAS TO EXPLORE AND
3 ASSESS THE NATURE AND MAGNITUDE OF THE POTENTIAL
4 MEDICAL RISKS ASSOCIATED WITH OOCYTE DONATION FOR STEM
5 CELL RESEARCH WITH AN EYE TOWARDS IDENTIFYING WHAT WE
6 KNOW, WHAT WE NEED TO KNOW, AND WHAT STRATEGIES MIGHT
7 BE EMPLOYED TO REDUCE THE POTENTIAL RISKS ASSOCIATED
8 WITH THIS PROCEDURE.

9 WE HAD A VERY TIGHT TIMELINE. THE PROJECT
10 START-UP WAS IN JUNE OF 2006. OUR FIRST MEETING WAS
11 JUST WITHIN THREE TO FOUR WEEKS IN JULY. AT THIS
12 MEETING ALL OF THE MEMBERS ASSEMBLED ALONG WITH NAS
13 STAFF AND WE PLANNED OUT WHAT WERE THE ISSUES. AND WE
14 DISCUSSED THIS, AND THEN WE ALSO PUT TOGETHER A ROSTER
15 OF INDIVIDUALS TO INVITE. WE PUT TOGETHER THE AGENDA
16 FOR THE WORKSHOP AND ALSO WHOM TO INVITE TO THE
17 WORKSHOP. WE HAD A MEETING JUST A COUPLE OF DAYS
18 BEFORE THE WORKSHOP TO BE SURE EVERYTHING WAS ON TRACK,
19 NUMEROUS E-MAILS AND TELECONFERENCES IN BETWEEN, AND
20 THEN THE WORKSHOP HELD ON SEPTEMBER 28TH AT THE HYATT,
21 I BELIEVE, OR THE HILTON AT THE AIRPORT.

22 WE HAD A WRITER, A SCIENCE WRITER, AND
23 NUMEROUS DRAFTS OF OUR REPORT, WHICH IS PURELY A
24 SUMMARY OF THE EVENTS THAT WERE DISCUSSED AT THE
25 MEETING. SO THERE'S NO EDITORIALIZING, THERE'S NO

1 ADDITIONAL INFORMATION. ACCURACY OF INFORMATION WAS
2 CERTAINLY CHECKED. AND AS BERNIE SAID, OUR CHARGE WAS
3 NOT TO MAKE RECOMMENDATIONS, BUT RATHER TO ESSENTIALLY
4 DESCRIBE THE STATE OF THE SCIENCE AND THE STATE OF THE
5 MEDICINE. AND THE REPORT WAS RELEASED EARLIER THIS
6 YEAR IN JANUARY.

7 SO THE GOALS OF TODAY ARE TO GO THROUGH THE
8 PROCESS TO PROCURE HUMAN OOCYTES. WHAT IS THE
9 MAGNITUDE OF THE RESOURCE, WHICH CERTAINLY IMPACTS ON
10 THE AVAILABILITY OF SUBSTRATE FOR EXPERIMENTS? WHAT
11 ARE THE RISKS INVOLVED? HOW GOOD ARE THE DATA IN TERMS
12 OF THOSE RISKS? AND WHAT ARE SOME OF THE SOLUTIONS?

13 I'M SURE YOU ALL KNOW THAT THERE'S NATURAL
14 REPRODUCTION AND THERE'S ALSO IN VITRO FERTILIZATION.
15 AND IN IVF FOR THERAPY FOR INFERTILITY, GAMETES, THAT
16 IS, EGGS AND SPERM, ARE OBTAINED FROM PATIENTS OR
17 DONORS, PERHAPS A SPERM DONOR OR AN EGG DONOR OR
18 SOMETIMES BOTH. EMBRYOS ARE THEN CREATED, AND THESE
19 ARE USUALLY TRANSFERRED FOR THERAPY. FOR HUMAN
20 EMBRYONIC STEM CELL RESEARCH, IT IS THE EMBRYO AT THE
21 BLASTOCYST STAGE THAT IS USED FOR THE INNER CELL MASS
22 TO GENERATE CELL LINES. AND GAMETES, IN PARTICULAR
23 EGGS, ARE THE TOPIC FOR USE IN SOMATIC CELL NUCLEAR
24 TRANSFER WHERE AN EGG WILL HAVE ITS NUCLEUS TAKEN OUT,
25 THE NUCLEUS THEN OF A SOMATIC CELL, I.E., NOT AN EGG

1 CELL, NOT A SPERM CELL, IS PUT IN. AND THEN THIS
2 REPROGRAMS AND YOU END UP GENERATING EMBRYOID OR
3 EMBRYO-LIKE STRUCTURE THAT HAS AN INNER CELL MASS, AND
4 CELLS CAN THEN BE OBTAINED FOR THAT.

5 THE ASSISTED REPRODUCTIVE TECHNOLOGIES GO
6 BACK A VERY LONG WAY. THE FIRST BABY WAS BORN IN 1984
7 IN THIS COUNTRY AND 1978 IN THE UNITED KINGDOM. IT'S A
8 COLLECTION OF THERAPIES TO ACHIEVE A PREGNANCY
9 INVOLVING PATIENTS, SPERM DONORS, EGG DONORS, SOMETIMES
10 SURROGATES. AND THE OLD PARADIGM WAS SOME DONATION OF
11 EMBRYOS AND EGGS FOR THE USE OF OTHER INDIVIDUALS
12 USUALLY FOR REPRODUCTIVE PURPOSES AND SOMETIMES FOR
13 RESEARCH. THIS SET OF --

14 (DISCUSSION OFF THE RECORD REGARDING THE
15 TRANSMISSION.)

16 DR. GUIDICE: IN ADDITION TO FERTILITY
17 THERAPY, THE ASSISTED REPRODUCTIVE TECHNOLOGIES HAVE
18 NOW GIVEN AN OPPORTUNITY FOR SUBJECTS AND PATIENTS,
19 EITHER PATIENTS WHO BECOME SUBJECTS OR SUBJECTS WHO ARE
20 NOT UNDERGOING THERAPY, TO PARTICIPATE IN HUMAN
21 EMBRYONIC STEM CELL AND SOMATIC CELL NUCLEAR TRANSFER
22 RESEARCH WITH THE HOPE OF THE PROMISE OF CURES FOR
23 CHRONIC DISEASES.

24 THERE'S A NEW PARADIGM THAT HAS BEEN
25 INTRODUCED. AND THAT IS FOR INDIVIDUALS OR COUPLES

1 UNDERGOING ASSISTED REPRODUCTION PROCEDURES SOLELY TO
2 DONATE GAMETES OR EMBRYOS FOR RESEARCH. SO THAT IS NOT
3 IN COMMON PRACTICE IN THIS COUNTRY. BUT SOME OF THE
4 MOTIVATING FACTORS MAY BE FOR EVENTUAL HELP OF FAMILY
5 MEMBERS WHO MAY BE AFFECTED BY A GENETIC DISORDER OR A
6 CHRONIC DISEASE FOR MONEY OR ALTRUISTICALLY.

7 IN 2004 WHERE THE DATA WERE REPORTED IN
8 DECEMBER OF 2006, THERE WERE ABOUT 123,000 ASSISTED
9 REPRODUCTIVE TECHNOLOGY CYCLES IN THE UNITED STATES,
10 AND THERE ARE 437 CLINICS PERFORMING MOST OF THESE
11 CYCLES. THERE WERE 35,786 LIVE BIRTHS. AND OF THOSE
12 CYCLES IN WHICH FRESH EMBRYOS WERE TRANSFERRED, 74
13 PERCENT OF THESE CYCLES WERE WITH FRESH EMBRYOS AND NOT
14 USING A DONOR EGG. 14 PERCENT USED FROZEN EMBRYOS, BUT
15 NOT WITH A DONOR EGG USED. AND 8 PERCENT WERE FRESH
16 CYCLES WHERE A DONOR EGG WAS USED IN THE ATTEMPT TO
17 CONCEIVE, AND 3.4 PERCENT USED FROZEN EMBRYOS WHERE A
18 DONOR EGG WAS USED AS AN ATTEMPT TO CONCEIVE. SO ABOUT
19 11 PERCENT OF THESE CYCLES, SO ABOUT 13,000 ART CYCLES,
20 ARE DONOR EGG CYCLES FOR THE PURPOSE OF FERTILITY AND
21 PREGNANCY.

22 YOU CAN SEE THAT ABOUT 11,000 CYCLES WERE
23 DISCONTINUED BEFORE THE EGG RETRIEVAL PRIMARILY FOR
24 POOR EGG PRODUCTION, BUT THERE WERE ALSO SOME
25 CANCELLATIONS FOR MEDICAL COMPLICATIONS. THESE DATA

1 ARE FROM THE SART, SOCIETY FOR ASSISTED REPRODUCTIVE
2 TECHNOLOGIES, WHICH IS A MEMBER OF THE AMERICAN SOCIETY
3 FOR REPRODUCTIVE MEDICINE.

4 SO IN THE PROCUREMENT PROCESS, WHEN A COUPLE
5 COMES IN OR AN INDIVIDUAL COMES IN, THERE'S A HISTORY
6 AND PHYSICAL EXAM, A REVIEW, AN EXTENSIVE REVIEW OF
7 FAMILY HISTORY, AND PSYCHOLOGICAL SCREENING. AND THERE
8 IS INFORMED CONSENT WITH REGARD TO THE PROCEDURES, THE
9 MEDICATIONS, THE RISKS, AND THE BENEFITS, AND THE
10 ALTERNATIVES. ALSO, A RATHER ELABORATE PART OF THIS
11 INFORMED CONSENT IS THE DISPOSITION OF THE EMBRYOS AND
12 THE GAMETES. PRIOR TO HUMAN EMBRYONIC STEM CELL
13 RESEARCH AND SOMATIC CELL NUCLEAR TRANSFER, THE
14 DISPOSITION OF THE EMBRYOS WAS PRIMARILY EITHER FOR
15 CRYOPRESERVATION AND FOR LATER USE OR FOR DONATING TO
16 RESEARCH, AND THE THIRD OPTION WAS TO DISCARD UNWANTED
17 OR UNUSED EMBRYOS OR GAMETES.

18 THE FEMALE PARTNER UNDERGOES A SIGNIFICANT
19 AMOUNT OF HORMONAL TESTING AND ANATOMIC TESTING FOR
20 FERTILITY PURPOSES. AND THE MALE IS EVALUATED BY A
21 SEMEN ANALYSIS INITIALLY. IN ADDITION, ALL SUBJECTS IN
22 THE STATE OF CALIFORNIA, CURRENTLY ALL SUBJECTS
23 UNDERGOING EITHER ASSISTED REPRODUCTION OR ARTIFICIAL
24 INSEMINATION OR PARTNER INSEMINATION UNDERGO INFECTIOUS
25 DISEASE TESTING, INCLUDING HIV, HUMAN TUMOR LEUKEMIA

1 VIRUS 1 AND 2, HDLV I AND II, HEPATIS B AND C, AND A
2 SYPHILIS TEST.

3 SO THE PROCUREMENT PROCESS CONSISTS OF
4 SUBJECTS OR PATIENTS WHO UNDERGO, FIRST, AN INITIAL
5 CONSULTATION, TESTING, CONSENTING, AND THEN INJECTION
6 TEACHING. AND THE REASON FOR INJECTION TEACHING IS
7 THAT IN ORDER TO -- THE GOAL HERE IS TO GET MANY EGGS.
8 NORMALLY IN AN OVARY ONLY ONE EGG DEVELOPS PER CYCLE.
9 ONLY ONE EGG OVULATES PER CYCLE; SEVERAL DEVELOP, AND
10 THIS IS AN IMPORTANT POINT. A WHOLE GROUP WILL BE
11 COMMITTED TO DEVELOPMENT FOR THAT CYCLE, BUT ONLY ONE
12 MAKES IT AND ALL THE OTHERS DIE OFF. WHAT THIS PROCESS
13 DOES IS IT USES INJECTABLE FSH, FOLLICLE STIMULATING
14 HORMONE, AND A LITTLE BIT OF LH, TO SAVE THOSE THAT
15 WERE DESTINED TO DIE OFF AND BE PART OF THIS GROUP OR
16 THIS COHORT THAT GETS DEVELOPED FOR THAT CYCLE. SO
17 THIS CAN BE ANYWHERE FROM ONE MORE FOLLICLE OR EGG FOR
18 A CYCLE, OR IT COULD BE 25 MORE FOLLICLES DEPENDING ON
19 A NUMBER OF THINGS, AS WE'LL GET INTO SHORTLY, AND THIS
20 IS ACTUALLY THE BASIS OF SOME OF THE RISK THAT'S
21 INVOLVED IN THE MEDICAL THERAPY.

22 SO SUBJECTS AND PATIENTS SELF-INJECT BY
23 SUBCUTANEOUS INJECTION FSH AND LH. IN ADDITION, THEY
24 USUALLY TAKE ANOTHER MEDICATION CALLED THE GNRH
25 AGONIST, WHICH IS BASICALLY TO PREVENT THEM FROM HAVING

1 AN LH SURGE AND, THEREFORE, PREVENTING THEM FROM
2 OVULATING BECAUSE THE TEAM NEEDS TO GET IN THERE TO GET
3 THE EGGS OUT BEFORE THEY ALL OVULATE. AND WHEN
4 EVERYTHING LOOKS GOOD, I.E., WHEN THE FOLLICLES DEVELOP
5 TO A CERTAIN SIZE AND THE ESTRADIOL LEVEL IS AT A
6 CERTAIN LEVEL AND IS RISING, THEN HCG IS GIVEN. THIS
7 IS ANOTHER HORMONE THAT'S GIVEN BY INJECTION TO MAKE
8 THE EGGS DEVELOP AND MATURE. AND WITHIN 36 TO 41 HOURS
9 LATER, USUALLY THE EGGS ARE READY TO POP OUT OR
10 OVULATE, AND THAT'S WHEN THE EGG RETRIEVAL IS DONE, SO
11 THE TAKING OUT OF THE EGGS, AS YOU WILL SEE SHORTLY.

12 SO THIS IS THE PROCESS THAT AN EGG DONOR
13 WOULD UNDERGO, AND IT'S THE SAME PROCESS THAT A PATIENT
14 UNDERGOING FERTILITY THERAPY WOULD UNDERGO. THE REST
15 OF THE PROCESS IN TERMS OF INSEMINATING THESE RETRIEVED
16 EGGS, WATCHING THE EMBRYOS DEVELOP, AND THEN
17 TRANSFERRING IS VERY SPECIFIC TO PATIENTS WANTING
18 FERTILITY THERAPY, BUT THERE MAY BE SUBJECTS WHO WOULD
19 WANT TO HAVE EMBRYOS CREATED AND HAVE THE INNER CELL
20 MASS THEN GIVE RISE TO HUMAN EMBRYONIC STEM CELL LINES.

21 SO HOW DO WE GET THE EGGS OUT? THE PATIENTS
22 ARE USUALLY OR SUBJECTS ARE USUALLY IN A SPECIAL
23 PROCEDURE ROOM. THERE'S USUALLY AN ANESTHESIOLOGIST
24 PRESENT. AND THE PROCEDURE IS PERFORMED UNDER LIGHT
25 ANESTHESIA, PRIMARILY CONSCIOUS SEDATION. SO THIS IS

1 NOT AN INTUBATION. THERE'S NOT A TUBE DOWN THE THROAT.
2 IT'S NOT DEEP ANESTHESIA. IT'S LIGHT ANESTHESIA.
3 EVERYTHING IS DONE UNDER STERILE CONDITIONS. AND THEN
4 A TRANSVAGINAL ULTRASOUND PROBE IS PLACED. AND I
5 SHOULD MENTION HERE WHILE INJECTIONS ARE BEING MADE,
6 USUALLY ON A DAILY BASIS, THE PATIENT USUALLY COMES IN
7 EVERY FEW DAYS FOR AN ULTRASOUND TO LOOK AT HOW THE
8 FOLLICLES ARE DEVELOPING, AND SHE OFTEN WILL GET A
9 BLOOD TEST FOR ESTROGEN OR ESTRADIOL.

10 SO THIS IS THE ULTRASOUND PROBE. IT'S
11 TRANSVAGINAL. THERE'S A STERILE COVER ON IT, AND THIS
12 LONG SKINNY THING IS THE ASPIRATING NEEDLE THAT'S
13 ATTACHED WITH SOME TUBING TO A TEST TUBE. AND THERE'S
14 A SUCTION AS WELL. SO WHEN THE PROBE IS PLACED INTO
15 THE VAGINA, IT'S PUT INTO THE BACK OF THE VAGINA, AND
16 THEN UNDER ULTRASOUND GUIDANCE -- MY POINTER IS
17 BECOMING ANEMIC HERE. IN THE UPPER RIGHT YOU CAN SEE
18 THAT BLACK CIRCLES ARE THE FOLLICLES, AND RIGHT THERE
19 IS THE ASPIRATING NEEDLE. AND SO THAT'S WHAT THE
20 OPERATOR USES AS A GUIDE TO GET THE EGGS OUT. NOW, A
21 LOT OF THINGS LOOK BLACK AND ROUND IN THE PELVIS.
22 THERE COULD BE BLOOD VESSELS. THERE COULD BE FLUID IN
23 THE GUT. HOWEVER, USUALLY DURING THE MONITORING
24 PROCESS, THE OPERATOR OR THE SKILLED ULTRASONOGRAPHER
25 IS AWARE OF WHERE THESE STRUCTURES ARE AND HOW MANY ARE

1 THERE AND ARE THEY GROWING, AND USUALLY BLOOD VESSELS
2 DON'T GROW OVER A TWO-WEEK OR A WEEK PERIOD.

3 SO WHEN THE NEEDLE IS PUT IN, THEN THE
4 SUCTION IS APPLIED, THE FOLLICLE COLLAPSES, THE EGG
5 USUALLY COMES OUT, AND IT FINDS ITS WAY INTO THAT TEST
6 TUBE RIGHT THERE. THAT'S GIVEN TO AN EMBRYOLOGIST WHO
7 THEN LOOKS TO SEE IF THE EGG IS THERE AMONG A LOT OF
8 OTHER CELLS. SO ONCE EGGS ARE RETRIEVED, THEN THERE'S
9 AN OPPORTUNITY POTENTIALLY TO DO SOMATIC CELL NUCLEAR
10 TRANSFER. MORE COMMONLY, THE EGGS ARE INSEMINATED.
11 AND THEN AFTER INCUBATION, THEY'RE USUALLY TRANSFERRED
12 INTO THE UTERINE CAVITY IN THE RIGHT LOWER CORNER. AND
13 THAT'S THE TRANSFER CATHETER, THAT LITTLE WHITE THING.
14 AND THE LITTLE EMBRYOS ARE SQUIRTED UP HERE. FOR HUMAN
15 EMBRYONIC STEM CELL LINE DERIVATION, THE EMBRYOS,
16 RATHER THAN BEING TRANSFERRED, WOULD BE OBTAINED AND
17 EITHER GROWN TO THE FIVE-DAY STAGE, WHICH IS THE
18 BLASTOCYST STAGE, AND THE INNER CELL MASS THEN OBTAINED
19 FOR LINE DERIVATION.

20 FOR EGG DONORS, COMMONLY THE DONOR IS GIVEN
21 THE EXACT SAME TYPE OF STIMULATION. THE EGGS ARE
22 HARVESTED, AND THERE IS A PROCESS CALLED NOW EGG
23 SPLITTING THAT IS SOMETIMES PURSUED IN IVF CLINICS
24 WHERE A WOMAN CAN HAVE A DISCOUNT ON HER IVF CYCLE IF
25 SHE SHARES HER EGGS WITH ANOTHER WOMAN. THERE IS SOME

1 DISCUSSION ALSO WITH REGARD TO EGG SPLITTING FOR GIVING
2 EGGS FOR RESEARCH. AND SO HERE ABOUT 14,000 DONOR EGG
3 CYCLES. YOU CAN SEE THE MAGNITUDE OF THE NUMBER OF
4 CYCLES.

5 SO WHAT ARE THE RISKS? AFTER GOING THROUGH
6 ALL OF THAT PROCEDURE, THERE ARE SEVERAL RISKS THAT
7 FALL INTO TWO TYPES OF CATEGORIES. AND THIS IS WHAT WE
8 DISCUSSED AT THE COMMITTEE AND AT THE WORKSHOP. THE
9 ACUTE RISKS, THE FIRST ONE BEING OVARIAN
10 HYPERSTIMULATION SYNDROME. SO YOU CAN IMAGINE AS THE
11 OVARIES ARE GROWING, THERE MAY BE SOME EFFECTS IN TERMS
12 OF THE OVARIES GETTING LARGER, AND THERE ARE RISKS
13 ASSOCIATED WITH THAT, AS WE'LL GET INTO. THERE ARE
14 ALSO SURGICAL RISKS, POTENTIALLY ANESTHETIC RISKS,
15 POTENTIALLY PSYCHOLOGIC RISKS, AND THERE MAY BE
16 DIFFERENCES BETWEEN PSYCHOLOGIC RISKS BETWEEN EGG
17 DONORS FOR RESEARCH AND EGG DONORS FOR FERTILITY AND
18 PREGNANCY.

19 THEN THERE ARE THE ISSUES OF POTENTIAL
20 CHRONIC RISKS WITH REGARD TO STEROID HORMONE OR
21 ESTROGEN-DEPENDENT CANCERS BECAUSE THE ESTROGEN LEVELS
22 IN THESE CYCLES TEND TO GET SOMETIMES TENFOLD ABOVE
23 NORMAL FOR A BRIEF PERIOD OF TIME, BUT STILL THERE'S
24 EXPOSURE. AND THEN THE ISSUE OF POTENTIALLY FUTURE
25 FERTILITY.

1 SO OVARIAN HYPERSTIMULATION SYNDROME, DR.
2 CEDARS GAVE A VERY THOROUGH PRESENTATION AND A REVIEW
3 OF THE LITERATURE. AND WHAT THIS IS IS AN EXAGGERATION
4 OF A DESIRED RESPONSE. IT'S MARKED BY AN INCREASED
5 SIZE OF THE OVARIES, SOMETIMES WITH UPSET STOMACH OR
6 OTHER GASTROINTESTINAL SYMPTOMS. AND THE LAST BULLET
7 POINT IS THE ONE THAT IS PERHAPS THE MOST CONCERNING,
8 AND THAT IS INCREASED VASCULAR PERMEABILITY. DEPENDING
9 ON THE STAGE, AND WE'LL GO THROUGH THE STAGING, THERE
10 CAN BE AN ACCUMULATION OF INTRAABDOMINAL FLUID,
11 DECREASED INTRAVASCULAR VOLUMES. SO THE FLUID FROM THE
12 BLOOD VESSELS CAN GO INTO THE ABDOMEN. THAT RESULTS IN
13 HEMOCONCENTRATION, CONCENTRATION OF THE BLOOD CELLS IN
14 THE CIRCULATION. IT CAN ALSO RESULT IN DECREASED BLOOD
15 FLOW TO THE KIDNEYS AND ALSO CAN BE ASSOCIATED WITH
16 ACTIVATION OF VASO CONSTRICTOR AND ANTI-NATIURETIC
17 FACTORS, SO CLOSING DOWN OF SOME VESSELS AND PREVENTING
18 NATIURESIS.

19 SO OVARIAN HYPERSTIMULATION SYNDROME, AGAIN,
20 ENLARGEMENT OF THE OVARIES DUE TO OVARIAN STIMULATION
21 WITH GONADOTROPINS. AND THE SECOND PART OF THE PHRASE,
22 AND ADMINISTRATION OF HCG IS A VERY IMPORTANT PART OF
23 THIS ASSESSMENT. AND THAT IS BECAUSE RARELY, RARELY DO
24 WE GET OVARIAN HYPERSTIMULATION SYNDROME IN THE ABSENCE
25 OF GIVING THE TRIGGER FOR EGG MATURATION AND OVULATION.

1 SO THIS IS ONE TYPE OF CLASSIFICATION THAT WE
2 DISCUSSED. THERE'S MINIMUM OHSS. MOST WOMEN
3 UNDERGOING OVARIAN STIMULATION HAVE SOME DEGREE OF
4 ENLARGED OVARIES AND SOME LOWER ABDOMINAL DISCOMFORT.
5 IT'S USUALLY REVERSIBLE AND DOES NOT REQUIRE
6 MEDICATION, ANALGESICS, OR HOSPITALIZATION.

7 MODERATE OHSS IS CHARACTERIZED BY ABDOMINAL
8 DISCOMFORT AND FLUID ACCUMULATION OR ABDOMINAL ASCITES,
9 NAUSEA AND VOMITING, AND A NORMAL HEMATOLOGIC PROFILE.
10 SO WITHOUT THE CONCENTRATION OF THE BLOODS CELLS.

11 AND THEN SEVERE OHSS, WHICH OCCURS, AND SOME
12 OF THESE NUMBERS ARE REALLY DIFFICULT TO PINPOINT, BUT
13 THE GOING ESTIMATE IS ABOUT 0.1 TO 0.2 PERCENT OF WOMEN
14 UNDERGOING THIS PROCEDURE HAVE SEVERE OHSS. AND THERE
15 ARE THREE TYPES OF GRADES. GRADE A IS OUTPATIENT
16 TREATMENT, AND THESE ARE FOR PATIENTS OR SUBJECTS WHO
17 HAVE DYSPNEA OR DIFFICULTY BREATHING BECAUSE OF FLUID
18 THAT'S PUSHING UP UNDER THE DIAPHRAGM, NAUSEA,
19 VOMITING, ENLARGED OVARIES, MARKED ASCITES, MARKED
20 FLUID ACCUMULATION, BUT A NORMAL BIOCHEMICAL PROFILE.

21 DR. PRIETO: I'M NOT REALLY HEARING YOU.

22 DR. GUIDICE: I'M LOOKING AT THE SCREEN. IN
23 ADDITION -- SO WE'RE ON THE SLIDE OF OVARIAN
24 HYPERSTIMULATION SYNDROME WITH THE THREE DIFFERENT
25 CLASSIFICATIONS.

1 AND SO WITH A NORMAL BIOCHEMICAL PROFILE, SO
2 THEIR KIDNEY FUNCTION LOOKS NORMAL, THEIR COAGULATION
3 PROFILE IS NORMAL, AND THEIR LIVER FUNCTIONS ARE
4 NORMAL.

5 GRADE B IS THE HOSPITAL ADMISSION, WHICH IS
6 CHARACTERIZED BY SEVERE OLIGURIA, OR DECREASED
7 PRODUCTION OF URINE, HEMOCONCENTRATION, ELEVATED
8 CREATININE, WHICH IS A REFLECTION OF KIDNEY FUNCTION,
9 AND ABNORMAL LIVER FUNCTION TESTS, AND THAT REQUIRES
10 HOSPITAL ADMISSION.

11 THE MOST SERIOUS IS GRADE C IN WHICH THERE IS
12 A RISK OF OR PRESENT THROMBOEMBOLIC EVENTS, AGAIN,
13 WHICH HAS A RANGE OF RISK, 0.7 PER 1,000,000 TO 2.4 PER
14 10,000. AND THE DATA INCLUDE PREGNANT WOMEN WHO ARE AT
15 THE HIGHEST RISK. AND THE SAME THING IS TRUE WITH
16 RENAL FAILURE. THIS IS A VERY IMPORTANT POINT BECAUSE
17 SUBJECTS WHO ARE DONATING THEIR OOCYTES FOR RESEARCH
18 PRESUMABLY WOULD NOT BECOME PREGNANT. OBVIOUSLY WE
19 WOULDN'T WANT PATIENTS TO HAVE ANY OVARIAN
20 HYPERSTIMULATION, BUT THE MOST SEVERE FORM WITH THE
21 GREATEST COMPLICATION IS IN WOMEN WHO BECOME PREGNANT.
22 AND THAT'S AN ISSUE ALSO WITH REGARD TO HUMAN SUBJECT
23 PROTECTION IN TERMS OF COUNSELING PATIENTS OR SUBJECTS
24 WITH REGARD TO THEIR CHANCE OF BECOMING PREGNANT
25 BECAUSE THERE COULD BE ONE LITTLE EGG THAT WAS JUST NOT

1 RETRIEVED. AND IF THEY HAVE INTERCOURSE, THEY COULD
2 END UP PREGNANT.

3 THERE'S AN ADDITIONAL CLASSIFICATION OF OHSS,
4 AND THAT IS EITHER EARLY OR LATE. THE EARLY OCCURS TWO
5 TO SEVEN DAYS AFTER GETTING THE TRIGGER OF HCG, AND
6 THIS IS THE ONE THAT IS MORE APPLICABLE TO THE EGG
7 DONATION POPULATION. THE LATE OHSS OCCURS 12 TO 17
8 DAYS AFTER HCG. SO IF YOU DO THE MATH, IF A WOMAN IS
9 NOT PREGNANT, SHE'S USUALLY HAD A PERIOD BY THAT TIME,
10 AND THE RISK OF OHSS IS QUITE LOW. HOWEVER, IF SHE IS
11 PREGNANT, AND THIS WE'RE ASSUMING IS NOT THE OVUM
12 DONATION POPULATION, THAT HAS A 4- TO 12-FOLD HIGHER
13 PREVALENCE THAN THE EARLY FORM.

14 SO YOU CAN SEE THAT MOST OF SEVERE OHSS AND
15 MOST OF LATE OHSS OCCURS IN THE PREGNANT POPULATION
16 FROM THE FERTILITY TREATMENT AS OPPOSED TO THE
17 POTENTIAL EGG DONOR OR THE EGG DONOR POPULATION FOR
18 FERTILITY.

19 WITH REGARD TO SURGICAL RISKS, THERE CAN BE
20 DAMAGE TO INTERNAL ORGANS DUE TO THE EGG RETRIEVAL
21 PROCEDURE. AS YOU SAW, THE NEEDLE GOES IN UNDER
22 ULTRASOUND GUIDANCE, BUT SOME STRUCTURES LOOK LIKE
23 OTHERS. AND THAT'S ABOUT 0.1 PERCENT RISK. AND THESE
24 DATA WERE SUMMARIZED BY DR. ANA MURPHY OF EMORY
25 UNIVERSITY.

1 THERE'S ALSO SEVERE -- A SURGICAL RISK IS
2 SEVERE INTRAABDOMINAL BLEEDING, INFECTION. AND IT'S
3 INTERESTING THAT IN 1993, WHEN ONE REPORT WAS
4 PUBLISHED, THE PREVALENCE RATE WAS NINE OUT OF A
5 THOUSAND. AND THEN AFTER AN ASEPTIC TECHNIQUE WAS
6 INTRODUCED, ANOTHER REPORT CAME OUT WITH NO INFECTIONS
7 IN 5,000 EGG RETRIEVALS. TORSION OR TWISTING OF THE
8 OVARY. IF THE OVARY IS BIG AND IT'S ON A LITTLE
9 PEDACLE, IT CAN TWIST ON ITSELF. AND THAT RISK IS
10 ABOUT .13 PERCENT, AND THAT'S A LATE COMPLICATION.

11 SURGICAL RISKS, INCREASE IN WOMEN WITH
12 PREVIOUS ABDOMINAL SURGERY, KNOWN PELVIC ADHESIONS OR
13 UNKNOWN PELVIC ADHESIONS, AND PREVIOUS PELVIC
14 INFLAMMATORY DISEASE.

15 DR. LAWRENCE TSEN FROM HARVARD, AN
16 ANESTHESIOLOGIST, REVIEWED THE ANESTHETIC RISKS, AND HE
17 HAS PUBLISHED EXTENSIVELY ON THIS, ESPECIALLY WITH
18 REGARD TO THE IVF POPULATION, WHICH IS WHY WE INVITED
19 HIM TO REVIEW THE LITERATURE AS WELL AS HIS OWN
20 EXPERIENCE.

21 IV ANESTHESIA, CONSCIOUS SEDATION PRIMARILY,
22 WHICH IS THE WAY ANESTHESIA IS PRIMARILY ADMINISTERED
23 TO WOMEN UNDERGOING THESE PROCEDURES. THE ANESTHETIC
24 RISK INCREASES WITH INCREASING AMERICAN SOCIETY OF
25 ANESTHESIOLOGY SCORES AND ARE HIGHEST IN MEN. SO THIS

1 IS NOT RELEVANT TO THE DONOR POPULATION.
2 CO-MORBIDITIES, SO OTHER MEDICAL CONDITIONS THAT ARE
3 ASSOCIATED WITH -- HAVING OTHER MEDICAL CONDITIONS.
4 ELDERLY, WHICH WOULD NOT BE FOR THIS POPULATION.
5 OBESITY, WHICH COULD BE POSSIBLE IN POTENTIAL OOCYTE
6 DONORS. IN-PATIENT, THE PROCESS IS PRIMARILY AN
7 OUTPATIENT PROCEDURE, AND SO NOT CONTRIBUTING TO
8 INCREASED RISK. AND EGG RETRIEVALS ARE NOT
9 EMERGENCIES, AND SO THIS DOES NOT CONTRIBUTE TO THE
10 OVERALL RISK.

11 THERE ARE MINOR AND MAJOR MORBIDITIES,
12 ESPECIALLY AN INCREASED RISK WITH INCREASING BMI. AND
13 SO THIS GIVES US SOME CLUES IN TERMS OF EVENTUALLY,
14 ALTHOUGH WE HAVEN'T MADE ANY RECOMMENDATIONS, THERE MAY
15 BE INDICATIONS FOR RECOMMENDATIONS FOR EGG DONATION,
16 AND SO BMI MAY BE ON THE TABLE. AND DEATH IS AN
17 EXTREMELY RARE EVENT, AN ANESTHETIC DEATH DURING THIS
18 PROCEDURE. AND BY COMPARISON, IT'S ONE IN 300,000,
19 WHICH IS LESS THAN DRIVING IN YOUR CAR, WHICH IS
20 SOMETHING LIKE ONE IN 50,000.

21 PSYCHOLOGICAL RISKS, DR. SUSAN KLOCK FROM
22 NORTHWESTERN, A PSYCHOLOGIST, WHO WORKS WITH EGG DONORS
23 PRIMARILY, PRESENTED THESE DATA. AND THERE ARE VERY
24 FEW DATA OUT THERE, AND ALL OF THE DATA ARE ON EGG
25 DONATION FOR FERTILITY. THERE ARE NO DATA ON EGG

1 DONATION FOR RESEARCH. SO SUBJECTS REPORT MOOD SWINGS
2 LIKELY DUE TO THE FLUCTUATING HORMONES, ANXIETY,
3 REGRET, SOMETIMES FEELING LIKE A COMMODITY, TRAVEL, AND
4 PAIN, PERIODS OF VULNERABILITY DURING SCREENINGS. SO
5 IF YOU ARE PUTTING YOURSELF OUT THERE AS A POTENTIAL
6 EGG DONOR, AND YOU'RE TOLD THAT YOU HAVE POTENTIALLY A
7 DISORDER OR SOMETHING THAT WOULD DISQUALIFY YOU FROM
8 BEING AND EGG DONOR FOR FERTILITY THERAPY, THAT
9 CERTAINLY PUTS YOU IN A VERY VULNERABLE POSITION.
10 ANOTHER VULNERABLE POSITION IS DURING THE DONATION
11 PROCEDURE, THE COUPLE WHO IS WANTING THE EGGS IS VERY
12 AWARE OF HOW THE OVARIES STIMULATE. ARE THEY
13 STIMULATING ON TIME? ARE WE GETTING ENOUGH EGGS? AND
14 MANY OF THE EGG DONORS FEEL PRESSURE. AND THEN
15 POSTDONATION, ONCE THE DONATION IS DONE, THAT'S USUALLY
16 THE END OF THE INVOLVEMENT OF THE EGG DONOR WITH THE
17 FERTILITY PROCESS. AND MANY WOMEN -- THIS IS WHERE
18 ISSUES OF REGRET AND SOMETIMES FEELING LIKE A COMMODITY
19 COME INTO THIS.

20 IT SHOULD BE MENTIONED THAT RIGHT NOW THE
21 AVERAGE COMPENSATION FOR EGG DONATION IN THIS COUNTRY
22 IS \$7,000, AND IT VARIES BETWEEN ABOUT 5,000 TO 10,000,
23 BUT THERE ARE, I'M SURE YOU'RE ALL AWARE, SOME QUITE
24 EXTREME OFFERS FOR EGG DONATION.

25 ROBERTA NESS GAVE AN OVERVIEW OF CANCER

1 RISKS, AND SHE HAS PUBLISHED EXTENSIVELY ON THIS. AND
2 MOST OF THE DATA ARE ON OVARIAN CANCER. IT'S IMPORTANT
3 TO REALIZE AND RECOGNIZE THAT THE DATA ARE QUITE SOLID
4 WITH REGARD TO INFERTILITY. HAVING INFERTILITY AS A
5 WOMAN INCREASES THE RISK, HER RISK, OF OVARIAN CANCER.
6 AND THE DATA ARE QUITE SOLID THAT THE OVULATION
7 INDUCTION MEDICATIONS ARE NOT ASSOCIATED WITH AN
8 INCREASED RISK OF OVARIAN CANCER.

9 THERE IS NO EVIDENCE THAT FERTILITY DRUGS
10 INCREASE BREAST CANCER RISK. AND WITH REGARD TO
11 UTERINE OR ENDOMETRIAL CANCER, THESE DATA ARE
12 INCONCLUSIVE BECAUSE THE FOLLOW-UP IS ONLY AT THE
13 TEN-YEAR POINT, AND SO THE JURY IS OUT AT THIS POINT.
14 EFFECTS OVER TIME STILL NEED TO BE DETERMINED.

15 DR. PETERS: WOULD YOU ACCEPT A QUESTION IN
16 THE MIDDLE HERE? ON THIS EVIDENCE IS IN WITH
17 INFERTILITY INCREASES THE RISK OF OVARIAN CANCER, IS IT
18 INFERTILITY PER SE, OR IS IT THE FACT THAT THE WOMAN
19 ACTUALLY DOESN'T BEAR A CHILD DURING THIS PERIOD OF
20 TIME? IN OTHER WORDS, IS IT INFERTILITY OR JUST THE
21 LACK OF HAVING GOING THROUGH THE PROCESS OF A
22 PREGNANCY?

23 DR. GUIDICE: THERE ARE SOME DATA FROM ALICE
24 WHITTEMORE LOOKING AT DIFFERENT DIAGNOSES OF
25 INFERTILITY, AND HER DATA DEMONSTRATE THAT EVER HAVING

1 BEEN PREGNANT, NOT NECESSARILY DELIVERING, BUT EVER
2 HAVING BEEN PREGNANT IS PROTECTIVE AGAINST OVARIAN
3 CANCER. SO HERE THE DATA, THERE'S A WHOLE RANGE OF
4 EXPOSURES, IF YOU WILL, WOMEN WHO HAVE INFERTILITY AND
5 NEVER BEEN PREGNANT, WOMEN WHO HAVE BEEN PREGNANT, BUT
6 HAVE MISCARRIED, BUT HAVE NOT HAD CHILDREN. IT'S
7 PRIMARILY THOSE TWO GROUPS.

8 DR. PETERS: THANKS.

9 DR. GUIDICE: WITH REGARD TO FUTURE
10 FERTILITY, THERE'S NO CONVINCING EVIDENCE THAT
11 ADHESIONS AND ANTI-OVARIAN ANTIBODIES ARE INCREASED
12 WITH OVULATION INDUCTION. THERE'S SOME THEORETICAL
13 BASIS FOR ESPECIALLY THE ANTI-OVARIAN ANTIBODIES
14 BECAUSE IF YOU HAVE MANY POTENTIAL TARGETS AS THESE
15 FOLLICLES ARE OPENING, THEY'RE NOT HUGE GAPING HOLES,
16 BUT YOU COULD THEORETICALLY HAVE AN INCREASE IN
17 ANTI-OVARIAN ANTIBODIES, AND THERE'S NO EVIDENCE OF
18 THAT. THE EVIDENCE DOES ALSO NOT SUPPORT DEPLETION OF
19 THE FOLLICLE POOL OR AN EARLY MENOPAUSE. SO THAT'S
20 WHERE WHEN WE TALKED ABOUT HOW A GROUP OF FOLLICLES
21 GETS GOING FOR A PARTICULAR CYCLE, WHAT THESE
22 MEDICATIONS DO IS ESSENTIALLY PREVENT THE DYING OFF OF
23 THE FOLLICLES THAT WOULD HAVE DIED OFF AS OPPOSED TO
24 RECRUITING MORE AND MORE AND MORE. AND SO THERE IS NO
25 EVIDENCE TO DATE THAT WOMEN WHO UNDERGO THESE

1 PROCEDURES HAVE AN EARLY MENOPAUSE. AND THE DATA ARE
2 NOT COMPELLING REGARDING AN INCREASED RISK OF OVULATION
3 INDUCTION AND EGG RETRIEVAL ON COMPROMISED FUTURE
4 FERTILITY.

5 CHAIRMAN LO: LINDA, I'M SORRY. COULD I ASK
6 AGAIN FOR CLARIFICATION? I KNOW YOU WERE VERY CAREFUL
7 ABOUT THE WORDING HERE. SO NO CONVINCING EVIDENCE OF
8 AN INCREASE IN ADHESIONS, THAT'S NOT THE SAME AS SAYING
9 THERE'S EVIDENCE THAT THERE ARE NO ADHESIONS; IS THAT
10 RIGHT? YOU'RE NOT SAYING THAT THERE'S EVIDENCE THAT IT
11 DOESN'T HAPPEN. YOU'RE JUST SAYING THERE'S NO EVIDENCE
12 THAT IT HAPPENS?

13 DR. GUIDICE: THERE IS NO EVIDENCE THAT IT
14 HAPPENS.

15 CHAIRMAN LO: YOU HAVEN'T DISPROVED THAT IT
16 CAN HAPPEN OR THAT THERE'S AN ASSOCIATION?

17 DR. GUIDICE: CORRECT. YES.

18 DR. TAYLOR: HAS THERE ACTUALLY BEEN A STUDY
19 OF THIS? I'M NOT AWARE OF ANY SPECIFIC EVALUATION OF
20 THAT.

21 DR. GUIDICE: NO.

22 DR. TAYLOR: I'VE SEEN SOME LOOKING AT SORT
23 OF THE RECRUDESCENCE OR PROGRESSION OF ENDOMETRIOSIS
24 FOLLOWING THE HORMONAL STIMULATION, BUT I DON'T THINK
25 I'VE READ A STUDY THAT LOOKS AT ADHESION FORMATION

1 AFTER IVF AS OPPOSED TO BEFORE.

2 DR. GUIDICE: CORRECT. WHICH TIES INTO WHY
3 THIS IS WORDED THE WAY IT IS.

4 HOW DO WE MINIMIZE RISKS? AND IF YOU HAVE A
5 HANDOUT, THIS SLIDE IS IN THE HANDOUT. AND I WAS ASKED
6 BY BOTH GEOFF AND BERNIE TO ADD SPECIFIC SLIDES ABOUT
7 MINIMIZING THE MOST COMMON COMPLICATION, WHICH IS OHSS.

8 DR. LOMAX: I'M SORRY. TO MAKE ONE
9 CLARIFICATION, WE WERE NOT ABLE TO UPDATE THE SLIDE
10 DECK IN TIME. THESE SLIDES DID COME IN TOWARDS THE
11 END. I APOLOGIZE. WE DON'T HAVE SLIDES AVAILABLE IN
12 YOUR HANDOUT, BUT WE WILL MAKE THEM AVAILABLE. I THINK
13 SOME OF THEM MAY BE MISSING, AND WE WILL UPDATE THOSE.

14 DR. GUIDICE: MINIMIZING RISK, IT'S VERY
15 IMPORTANT FOR SUBJECT SELECTION AND TAKING A CAREFUL
16 HISTORY. IDENTIFYING WHO IS AT RISK BY TRANSABDOMINAL
17 OR TRANSVAGINAL ULTRASOUND TO LOOK AT HOW MANY
18 FOLLICLES ARE THERE. IT'S CALLED THE ANTRAL FOLLICLE
19 COUNT. USUALLY THOSE ARE THE FOLLICLES THAT DEVELOP.
20 AND IF YOU SEE 50 FOLLICLES IN EACH OVARY, THAT'S NOT A
21 GOOD CANDIDATE FOR OVULATION INDUCTION BECAUSE OF THE
22 RISK OF OVARIAN HYPERSTIMULATION.

23 UTERINE FIBROIDS, OVARIAN ENDOMETRIOMAS ARE
24 AT RISK FOR INCREASED INFECTION AND OTHER THINGS.
25 EXCLUDING WOMEN WITH A HISTORY OF SEVERE ENDOMETRIOSIS.

1 THESE ARE SOME OF THE EXCLUSION CRITERIA THAT ARE
2 APPLIED BY SOME OF THE LARGER EGG DONATION PROGRAMS,
3 SUCH AS THE ONE AT CORNELL THAT DR. ROSENWAKS, WHO WAS
4 ON THE COMMITTEE, SHARED WITH US.

5 THERE'S ALSO, AND I HAVE BROUGHT COPIES FOR
6 ALL MEMBERS OF THE COMMITTEE, THE PRACTICE COMMITTEE
7 REPORT ON OVARIAN HYPERSTIMULATION SYNDROME FROM THE
8 AMERICAN SOCIETY FOR REPRODUCTIVE MEDICINE BECAUSE I
9 THINK THIS WILL BE OF HELP TO YOU AS YOU DECIDE WHICH
10 DIRECTION TO GO WITH REGARD TO RISKS OF OHSS.

11 SO MINIMIZING RISK FOR GENERALLY YOUNG WOMEN,
12 SO EGG DONATION IS USUALLY DONE IN YOUNG WOMEN, USUALLY
13 LESS THAN 30 YEARS OLD, AND THESE ARE THE WOMEN WHOSE
14 OVARIES TEND TO HAVE MORE FOLLICLES THAN OLDER WOMEN.
15 BUT EGG DONATION PROGRAMS EXCLUDE GENERALLY WOMEN WITH
16 A HISTORY OF SEVERE ENDOMETRIOSIS, A HISTORY OF PELVIC
17 INFLAMMATORY DISEASE, ABDOMINAL SURGERY WITH KNOWN
18 PELVIC ADHESIONS, THROMBOPHILIAS OR ABNORMALITIES IN
19 BLOOD COAGULATION AND BLEEDING, OVARIAN TUMORS,
20 IRREGULAR MENSTRUAL BLEEDING BECAUSE IT'S UNCLEAR. A
21 WOMAN COULD BE PREGNANT, SHE COULD HAVE A CANCER IN THE
22 LINING OF THE UTERUS, A NUMBER OF THINGS COULD BE GOING
23 ON. AND ALSO WOMEN WITH POLYCYSTIC OVARY SYNDROME. SO
24 POLYCYSTIC OVARY SYNDROME IS A CLINICAL DISORDER WHERE
25 WOMEN TEND TO OVULATE INFREQUENTLY. ABOUT HALF OF

1 WOMEN WHO HAVE THAT DISORDER ARE OVERWEIGHT. AND FOR
2 THE MOST PART, THEY HAVE WHAT'S CALLED POLYCYSTIC-
3 APPEARING OVARIES, SO THEY HAVE MORE OF THOSE LITTLE
4 FOLLICLES IN THE OVARIES THAN WOMEN WHO DO NOT HAVE
5 POLYCYSTIC OVARY SYNDROME.

6 THERE'S ALSO SOMETHING CALLED POLYCYSTIC-
7 APPEARING OVARIES. I SHOULD MENTION WOMEN WITH THIS
8 SYNDROME ALSO USUALLY HAVE ELEVATED LEVELS OF THE MALE
9 HORMONE TESTOSTERONE AND FREQUENTLY HAVE INSULIN
10 RESISTANCE, IF NOT FRANK DIABETES. THERE'S ALSO
11 ANOTHER CONDITION CALLED POLYCYSTIC-APPEARING OVARIES
12 WHERE THE OVARIES LOOK CHOCK FULL OF THESE LITTLE
13 FOLLICLES, BUT THE WOMEN DO NOT HAVE THE HIGH
14 TESTOSTERONE OR THE HIGH INSULIN OR TENDENCY TOWARDS
15 DIABETES, AND THEY MAY OR MAY NOT BE OBESE, BUT IT
16 STILL PUTS THEM INTO A HIGHER RISK CATEGORY BECAUSE THE
17 FOLLICLES ARE SITTING READY TO TAKE OFF WHEN
18 STIMULATED.

19 MINIMIZING RISK, DOUBLE CONTRACEPTION FOR
20 OVUM DONORS. IF AN OVUM DONOR DONATES HER EGGS AND
21 THERE MIGHT BE ONE OR TWO STILL HANGING AROUND THE
22 PELVIS, IT'S POSSIBLE HER FALLOPIAN TUBES CAN PICK UP
23 ONE OR TWO OF THEM; AND IF SHE HAS INTERCOURSE, SHE IS
24 AT RISK FOR PREGNANCY, AND SO MOST PROGRAMS RECOMMEND
25 DOUBLE CONTRACEPTION FOR THE OVUM DONOR AND ALSO FOR

1 HER PARTNER.

2 AND ALSO INCLUDING GENETIC AND SEXUALLY
3 TRANSMITTED INFECTION SCREENING WITH STANDARD SCREENS.
4 THESE ARE PRIMARILY FOR PURPOSES OF REPRODUCTION; BUT
5 ALSO WITH REGARD TO INFECTION, ONE WOULD NOT WANT TO BE
6 GOING THROUGH THE BACK OF THE VAGINA IF THERE WERE A
7 RIP-ROARING INFECTION IN THE VAGINA THAT COULD
8 PREDISPOSE TO EITHER INFECTION IN THE UPPER TRACK OR
9 BLOOD INFECTION.

10 DR. ROWLEY: I WAS CURIOUS AS TO WHAT KIND OF
11 GENETIC SCREENING WOULD DONE IN A STANDARD WAY.

12 DR. GUIDICE: WE TYPICALLY SCREEN FOR CYSTIC
13 FIBROSIS, FOR MORE COMMON GENETIC DISORDERS, IF YOU
14 WILL. AND THIS IS ALSO WHERE FAMILY HISTORY BECOMES
15 VERY IMPORTANT IN SCREENING THE DONORS BECAUSE THAT
16 WILL THEN DETERMINE ADDITIONAL GENETIC SCREENING.

17 SO SPECIFICALLY TO MINIMIZE OHSS, AND THESE
18 ARE COMMENTS THAT HAVE COME DIRECTLY FROM THE REPORT
19 THAT WERE DISCUSSED AT THE MEETING, ONE IS SUBJECT
20 SELECTION AND CAREFUL HISTORY. ANOTHER IS, AGAIN,
21 IDENTIFYING WHO IS AT RISK. TRANSVAGINAL ULTRASOUND TO
22 ASSESS THE ANTRAL FOLLICLE COUNT. YOUNG, HEALTHY
23 OVARIES TEND TO HAVE BETWEEN 10 AND 15 FOLLICLES PER
24 OVARY. AND THE NUMBER OF EGGS RETRIEVED, SORT OF A
25 RULE OF THUMB, IS ABOUT EQUAL TO THE ANTRAL FOLLICLE

1 COUNT PLUS OR MINUS TWO. EXCLUDING WOMEN WITH A
2 HISTORY OF POLYCYSTIC OVARY SYNDROME OR POLYCYSTIC-
3 APPEARING OVARIES AND NORMAL HORMONAL PARAMETERS.
4 INDIVIDUALIZATION OF TREATMENT PROTOCOLS. AND THIS IS
5 A VERY IMPORTANT ISSUE. ONE SIZE DOES NOT FIT ALL.
6 WOMEN HAVE VERY DIFFERENT RESPONSES OF THEIR OVARIES TO
7 THESE STIMULATORY MEDICATIONS. SOME WOMEN NEED VERY
8 HIGH LEVELS IN ORDER TO GET TWO FOLLICLES TO DEVELOP,
9 AND OTHERS NEED MAYBE ONE-FOURTH THAT PARTICULAR DOSE
10 TO GET TEN FOLLICLES TO DEVELOP.

11 AND SO YOU REALLY NEED TO HAVE AN EXPERIENCED
12 PHYSICIAN WHO IS CARING FOR THE PATIENT AND DOING THE
13 STIMULATION WHO KNOWS AND UNDERSTANDS AND LOOKS AT THE
14 ANTRAL FOLLICLE COUNT, TAKES INTO ACCOUNT THE AGE OF
15 THE SUBJECT, AND CERTAINLY HER RISK AND ANY ASSOCIATED
16 MEDICAL CONDITIONS. CAREFUL MONITORING IS IMPORTANT.
17 AND SO THAT MEANS FREQUENT ULTRASOUNDS TO BE SURE THAT
18 FOLLICLES ARE NOT JUST INCREASING IN NUMBERS, AND
19 SOMETIMES ESTRADIOL LEVELS ARE ALSO DONE. SO
20 PERIPHERAL CIRCULATING BLOOD LEVELS OF ESTROGEN, AND
21 ESTROGEN IS MADE BY THE FOLLICLES AS THEY GROW. THE
22 BIGGER THEY GET, THE MORE ESTROGEN. AND THERE ARE SOME
23 DATA ON THE HIGHER -- QUITE A BIT OF DATA ON THE HIGHER
24 THE ESTROGEN LEVEL, THE HIGHER THE RISK OF OHSS.

25 SO ONE POSSIBILITY, IF ONE REALLY WANTS TO GO

1 WITH A CYCLE, AND THERE REALLY ARE DIFFERENT
2 MOTIVATIONS, AND WE DISCUSSED THIS IN TERMS OF EVEN
3 THOUGH THERE MAY BE A RISK OF OHSS, IF A COUPLE WANTS
4 TO GET PREGNANT AND THEY'VE INVESTED A LOT OF TIME AND
5 ENERGY AND MONEY, THEY MAY BE WILLING TO TAKE A RISK OF
6 A MILD FORM OR MODERATE. AND SO MOST TEAMS WOULD USE A
7 LOWER DOSE OF HCG. HOWEVER, IF A WOMAN IS AT AN
8 OBVIOUS HIGH RISK FOR OHSS, THE STANDARD OF CARE WOULD
9 BE TO WITHHOLD HCG FOR EGG MATURATION.

10 THERE ARE JUST A COUPLE OF REPORTS OF USING
11 LH AS THE TRIGGER, WHICH IS THE NATURAL THING IN THE
12 BODY. IT HAS A VERY SHORT HALF-LIFE, ABOUT 20 MINUTES,
13 AS OPPOSED TO HCG, WHICH IS SEVERAL HOURS. AND SO THIS
14 IS ANOTHER POSSIBILITY TO TRIGGER EGG MATURATION AND
15 HOPEFULLY TO MINIMIZE THE EFFECTS OF HCG ON OHSS.

16 IN ADDITION, IDENTIFYING AND EXCLUDING FROM
17 PARTICIPATION AND STIMULATION WOMEN AT RISK.
18 INDIVIDUALIZING THE STIMULATION PROTOCOL, SO THIS IS A
19 SUMMARY, WITH IDEAL MINIMAL STIMULATION. AND THIS, OF
20 COURSE, BRINGS UP ISSUES NOT ONLY FOR FERTILITY, BUT
21 CERTAINLY FOR EGG DONATION, AS WE'LL GET INTO ON THE
22 NEXT SLIDE, WITH REGARD TO WHAT ARE THE IDEAL TARGETS
23 FOR NUMBERS OF EGGS IN A RESEARCH SETTING. A LOW
24 THRESHOLD FOR CYCLE CANCELLATION BECAUSE THE PATIENT
25 ALWAYS COMES FIRST. AND THERE ARE SOME DATA USING A

1 VASCULAR ENDOTHELIAL GROWTH FACTOR, ALSO KNOWN AS VPF
2 OR VASCULAR PERMEABILITY FACTOR. THIS IS THE FACTOR
3 THAT THE CELLS AROUND THE EGG MAKE IN RESPONSE TO HCG.
4 AND SO WHEN HCG IS GIVEN, THERE'S A LOT OF THIS THAT'S
5 MADE. AND THIS IS WHAT'S RESPONSIBLE FOR THE FLUID
6 SHIFTS THAT OCCUR INTO THE ABDOMEN WHEN VERY HIGH
7 LEVELS OF VEGF ARE AROUND. THAT'S EXPERIMENTAL.

8 WITH REGARD TO THE DATA FOR THESE
9 OBSERVATIONS, IT'S VERY IMPORTANT TO NOTE, AND THIS WAS
10 DISCUSSED EXTENSIVELY AT THE COMMITTEE, THAT THE
11 STUDIES ARE LIMITED BY RELATIVELY SMALL NUMBERS OF
12 SUBJECTS EXCEPT IN THE OVARIAN CANCER STUDIES. THE
13 DATA THAT WE DO HAVE ARE ON PATIENTS, INFERTILITY
14 PATIENTS, AND ARE NOT ON HEALTHY VOLUNTEERS FOR THE
15 MOST PART, WHICH IS THE EGG DONOR POOL WHO MAY HAVE
16 EITHER DECREASED OR INCREASED RISKS. ALSO, THE DATA
17 ARE PRIMARILY ON CAUCASIAN WOMEN, MIDDLE TO UPPER
18 SOCIOECONOMIC STATUS BECAUSE THESE ARE PRIMARILY THE
19 WOMEN WHO CAN AFFORD TO HAVE IN VITRO FERTILIZATION FOR
20 FERTILITY THERAPY.

21 AND INTERESTINGLY, DESPITE GREATER THAN 20
22 YEARS OF IVF, WE DO NOT HAVE A DATABASE ON HEALTH
23 OUTCOMES OF WOMEN OR MEN UNDERGOING THESE PROCEDURES;
24 AND, THUS, WE CANNOT DRAW INFORMATION ABOUT LONG-TERM
25 RISKS FROM THE GREATER THAN ONE MILLION IVF CYCLES OVER

1 THE PAST 20 YEARS IN THE UNITED STATES AND CANADA. AND
2 THAT IS FOR A VARIETY OF REASONS, PRIMARILY FINANCIAL.
3 AND THE AMERICAN SOCIETY FOR REPRODUCTIVE MEDICINE,
4 WHICH IS AN ORGANIZATION, THAT'S A PROFESSIONAL
5 ORGANIZATION PRIMARILY FOR FERTILITY, BUT NOW ALSO FOR
6 WOMEN'S HEALTH, IS VERY AWARE OF THIS. AND AT LEAST
7 THEY'RE DISCUSSING IT. AND I SHOULD HAVE FULL
8 DISCLOSURE THAT I AM ON THEIR BOARD OF DIRECTORS. I AM
9 NOT ADVOCATING THEIR POLICY. I'M JUST REPORTING ON IT.

10 THE CHALLENGES FOR THE FUTURE ARE REALLY THE
11 QUANTIFICATION OF RISK. YOU'VE SEEN THE WIDE
12 VARIABILITY OF RISK FOR SEVERE OVARIAN HYPERSTIMULATION
13 SYNDROME, FOR INSTANCE. THE INCLUSION AND EXCLUSION
14 CRITERIA REALLY FORM A COMPLEX MATRIX, ESPECIALLY WHEN
15 WE ARE LOOKING AT YOUNG EGG DONORS FOR RESEARCH.
16 LONG-TERM OUTCOMES, HEALTH OUTCOMES OF FERTILITY,
17 CANCER, PSYCHOLOGICAL ISSUES, DEMOGRAPHICS IN THE DONOR
18 EGG POPULATION. SHOULD DONORS BE WOMEN WHO HAVE
19 PREVIOUSLY HAD A CHILD OR NULLIPAROUS WOMEN SUITABLE TO
20 DONATE FOR RESEARCH? SO WOMEN WHO HAVE NOT HAD A
21 CHILD, WHAT IS THE OPTIMAL AGE FOR EGG DONATION FOR
22 RESEARCH? IS IT REPRODUCTIVE AGE, 18 TO 45? IS IT
23 REPRODUCTIVE DONOR AGE, WHICH IS CURRENTLY THE
24 STANDARD, SOMEWHERE 21 AND 34, MORE COMMONLY 21 TO 30
25 YEARS OF AGE?

1 ANOTHER QUESTION THAT ARISES IS HOW MANY
2 TIMES TO DONATE? THERE ARE YOUNG WOMEN WHO GO THROUGH
3 SIX, SEVEN, EIGHT, NINE, TEN TIMES TO DONATE THEIR EGGS
4 FOR MONEY AND FOR FERTILITY THERAPY. THE QUESTION, I
5 THINK, CERTAINLY NEEDS CONSIDERATION FOR THE EGG DONOR
6 POPULATION FOR RESEARCH.

7 HOW MUCH STIMULATION? HOW DO WE TAILOR THE
8 PROTOCOLS? WHICH PROTOCOLS SHOULD WE USE? AND THERE
9 ARE DIFFERENT PROTOCOLS. I DIDN'T GET INTO THEM. AND
10 WE DISCUSSED THEM A LITTLE BIT AT THE MEETING, BUT
11 THERE ARE WAYS TO MINIMIZE STIMULATION, BUT ALSO THERE
12 ARE WAYS TO MAXIMIZE STIMULATION IN WOMEN WHO ARE POOR
13 RESPONDERS.

14 WHAT'S THE TARGET NUMBER OF EGGS RETRIEVED?
15 IN IVF CYCLES FOR FERTILITY, IT'S USUALLY SOMEWHERE
16 BETWEEN 10 TO 12, MAYBE 15. IS THAT THE SAME NUMBER WE
17 SHOULD BE THINKING ABOUT FOR EGG DONORS FOR RESEARCH?
18 AND IS THERE A PEAK ESTRADIOL LEVEL THAT SHOULD BE
19 TARGETED? ANOTHER QUESTION THAT WAS ENTERTAINED AT THE
20 COMMITTEE WAS ARE DONORS WITH A CHRONIC DISEASE A GOOD
21 RESOURCE FOR OOCYTES FOR RESEARCH?

22 SO ONE WAY TO ADDRESS THE ISSUE OF RISK AND
23 TO MINIMIZE RISK IS TO GET AN ALTERNATIVE SOURCE OF
24 EGGS, AND WE DISCUSSED THIS AS WELL. WE TALKED ABOUT
25 IMMATURE EGGS FROM IVF CYCLES. ABOUT 20 PERCENT OF THE

1 EGGS THAT ARE OBTAINED ARE USUALLY NOT MATURE ENOUGH,
2 AND THESE ARE USUALLY NOT USED OR THEY DON'T FERTILIZE.
3 AND THESE, HOWEVER, LIKELY WOULD NEED TO BE MATURED IN
4 VITRO. AND I SAY LIKELY BECAUSE IT'S REALLY NOT CLEAR
5 AT WHAT STAGE OF OOCYTE DEVELOPMENT SOMATIC CELL
6 NUCLEAR TRANSFER, FOR INSTANCE, CAN BE INITIATED USING
7 A HUMAN EGG, ALTHOUGH FOR FERTILIZATION AND GENERATION
8 OF AN EMBRYO AND, THEREFORE, AN INNER CELL MASS AND,
9 THEREFORE, HUMAN EMBRYONIC STEM CELL LINES, THERE WOULD
10 NEED TO BE IN VITRO MATURATION.

11 THERE ARE ALSO FAILED-TO-FERTILIZE OOCYTES
12 FROM IVF PROCEDURES, SO THESE ARE MATURE EGGS WHERE
13 THERE'S EITHER AN ISSUE WITH THE EGG ITSELF OR MORE
14 COMMONLY WITH THE SPERM. AND THESE CYCLES USUALLY
15 RESULT IN NO EMBRYOS, AND SO THOSE EGGS ARE AVAILABLE
16 OR COULD BE AVAILABLE FOR RESEARCH. AND SO THESE ARE
17 ALL IN WOMEN UNDERGOING THERAPIES FOR FERTILITY, THE
18 FIRST TWO BULLETS. THE THIRD IS WHEN A WOMAN UNDERGOES
19 PELVIC SURGERY, IF SHE WOULD CONSENT TO SOME OF THE
20 OUTER PORTION OF HER OVARY, A SMALL PORTION OF IT,
21 TAKEN OUT OR TO HAVE SOME OF HER FOLLICLES THAT ARE IN
22 THE OVARY PUNCTURED AT THAT TIME AND EGGS RETRIEVED.
23 THESE EGGS ALSO WOULD LIKELY NEED TO BE MATURED IN
24 VITRO. AND THE WHOLE ISSUE OF IN VITRO MATURATION WAS
25 DISCUSSED BY CATHERINE RACOWSKY, THE EMBRYOLOGIST FROM

1 HARVARD, WHO WAS ON THE COMMITTEE AND AT THE WORKSHOP,
2 AND IT'S NOT A TRIVIAL PROCESS AND IS ACTUALLY NOT VERY
3 WELL WORKED OUT. SO WHILE THESE ARE INTERESTING
4 ALTERNATIVE SOURCES, THESE ARE NOT SURE DEALS.

5 WE ALSO DISCUSSED CADAVERIC SOURCES AND ISSUE
6 OF CONSENT FROM FAMILIES, NEXT OF KIN AT THE TIME OF
7 DURESS, ASKING NEXT OF KIN FOR GAMETES. AN ADVANCED
8 DIRECTIVE. I'M NOT SURE THAT THERE ARE MANY PEOPLE WHO
9 USE AN ADVANCE DIRECTIVE WITH REGARD TO THE DISPOSITION
10 OF THEIR EGGS IN THE EVENT OF A DEMISE. AND, OF
11 COURSE, HOW VIABLE WOULD THE OOCYTES BE AFTER OTHER
12 ORGANS ARE HARVESTED? USUALLY THE MAJOR ORGANS, LIKE
13 THE LIVER AND THE KIDNEY FOR TRANSPLANTATION WHERE THEY
14 ARE SAVING LIVES, ARE THE ONES THAT ARE HARVESTED
15 FIRST. AND SO IT'S UNCLEAR, IN FACT IT'S UNTESTED, THE
16 VIABILITY OF EGGS AFTER PERHAPS SEVERAL HOURS FOR USE
17 IN RESEARCH.

18 WE ALSO DISCUSSED OOCYTES FROM FETAL OVARIES,
19 AND THESE ARE VERY HARD TO FIND. COMMONLY THEY WOULD
20 COME FROM ABORTED SPECIMENS. AND, AGAIN, THESE ARE
21 VERY, VERY RARE. AND THEN PERHAPS ONE OF THE BRIGHTEST
22 PARTS ON THE HORIZON IS OOCYTE GENERATION FROM GERM
23 CELLS DERIVED FROM HUMAN EMBRYONIC STEM CELLS. AND SO
24 IT'S SOMEWHAT OF A VICIOUS CYCLE IN THAT ONE WOULD NEED
25 THE HUMAN EMBRYONIC STEM CELL TO GENERATE A GERM CELL

1 AND THEN DIFFERENTIATE THAT GERM CELL TO BECOME A
2 GAMETE SUCH AS AN EGG.

3 SO I WILL STOP THERE. THAT'S A SUMMARY OF
4 EVERYTHING WE TALKED ABOUT. THE REPORT IS SHOWN HERE.
5 YOU CAN LOOK AT IT ON THE WEBSITE. AND I DID WANT TO
6 THANK THE COMMITTEE MEMBERS SHOWN HERE AND ALSO THE
7 MEMBERS OF THE NAS STAFF WHO WERE EXTREMELY HELPFUL IN
8 MOVING THIS PROCESS ALONG IN A VERY SHORT TIMELINE AND
9 GETTING THE REPORT OUT TO THE CIRM IN A VERY TIMELY
10 FASHION. THANK YOU.

11 CHAIRMAN LO: LINDA, THANK YOU SO MUCH BOTH
12 FOR CHAIRING THE COMMITTEE AND MAKING SUCH A WONDERFUL
13 PRESENTATION. ARE THERE QUESTIONS FOR DR. GUIDICE?

14 DR. OLDEN: IT SEEMS TO ME THAT A NUMBER OF
15 ONE TO TWO PER THOUSAND, I BELIEVE THAT'S THE RISK FOR
16 OHSS. THAT SEEMS TO BE HIGH TO ME. THAT NUMBER ISN'T
17 DISTURBING TO YOU OR THE COMMITTEE?

18 DR. GUIDICE: IT DEPENDS. I'LL HAVE THE
19 COMMITTEE MEMBERS CERTAINLY RESPOND, BUT IT'S GOING TO
20 DEPEND ON THE STAGE OF THE OHSS.

21 DR. OLDEN: I'M SORRY. I DON'T UNDERSTAND
22 THAT.

23 DR. GUIDICE: THE SEVERE. I CAN PULL THE
24 SLIDE BACK UP.

25 DR. OLDEN: I GUESS WHAT I'D LIKE TO SEE IS

1 TO KNOW WHAT IS THE RISK FOR THE MODERATES BECAUSE
2 THOSE ARE THE ONES THAT -- IF YOU BREAK THEM DOWN, IF
3 YOU LUMP THEM ALTOGETHER, WHAT WOULD YOU SAY THE RISK
4 IS? LET ME SAY FOR CANCER RISK, EPA STANDARDS IS ONE
5 IN A MILLION. AND ONE OR TWO IN A THOUSAND IS A HUGE
6 RISK FROM MY PERSPECTIVE.

7 DR. GUIDICE: WELL, LET'S GO TO THE MINIMUM
8 FIRST. AND THE RISK OF THAT IS CLOSE TO 80 TO 90
9 PERCENT OF WOMEN, THE MINIMAL DISEASE, THE FIRST
10 BULLET. THE MODERATE, I GUESS I WOULD GUESS AT THIS
11 POINT THAT IT'S PROBABLY ABOUT, AND, ROB, HELP ME HERE
12 IF YOU WOULD, I WOULD SAY MAYBE 15, 20 PERCENT.

13 DR. TAYLOR: I WAS THINKING 10 TO 20,
14 SOMETHING LIKE THAT.

15 CHAIRMAN LO: DOES THAT NUMBER INCLUDE WOMEN
16 WHO GO ON TO BECOME PREGNANT?

17 DR. GUIDICE: YEAH.

18 DR. TAYLOR: ABSOLUTELY.

19 CHAIRMAN LO: SO IF YOU WERE TO TRY AND
20 QUANTIFY THE RISK IN WOMEN WHO HAVE OOCYTE RETRIEVAL,
21 BUT THEN DO NOT GET PREGNANT, DO NOT HAVE THE INCREASE
22 IN ESTRADIOL AND PROGESTERONE, CAN YOU TRY AND PUT A
23 QUANTIFICATION ON THAT RISK?

24 DR. TAYLOR: I'VE NOT SEEN REPORTED DATA, AND
25 I HAVEN'T BEEN IN PROGRAMS WHERE THERE'S BEEN A HUGE

1 DONOR POPULATION. SOMEONE LIKE ZEV ROSENWAKS OR THE
2 GROUP AT COLUMBIA WHERE THEY HAVE A LOT OF DONORS WOULD
3 PROBABLY BE BEST. I WOULD THINK THAT THE RISK IS AT
4 LEAST FIVEFOLD LOWER IN PATIENTS WHO AREN'T SUBJECTED
5 TO THE SUPERSEDING EFFECTS OF A PREGNANCY. SO THAT
6 WOULD JUST BE KIND OF A GUESSTIMATE, BUT IT'S FAIRLY
7 UNUSUAL, I THINK, IN THAT POPULATION.

8 DR. OLDEN: THE OTHER QUESTION I HAVE IS THAT
9 FROM THE POINT OF VIEW OF THIS INITIATIVE HERE IN
10 CALIFORNIA, SHOULDN'T WE SET THE RISK, THE ACCEPTABLE
11 RISK, FOR AN EGG DONOR TO BE MUCH -- TO MAKE SURE IT'S
12 MUCH LESS THAN THAT FOR SOMEBODY WHO'S UNDERGOING THE
13 PROCEDURES FOR IN VITRO FERTILIZATION PURPOSES AND
14 REPRODUCTION? I MEAN A YOUNG WOMAN WHO'S JUST GOING IN
15 TO DONATE EGGS FOR RESEARCH OR FOR SOMEONE ELSE,
16 SHOULDN'T THAT RISK BE -- SHOULDN'T WE REQUIRE THAT THE
17 RISK FOR THAT INDIVIDUAL BE MUCH LOWER THAN FOR
18 SOMEBODY WHO, FOR THEIR OWN BENEFIT, IS HAVING THIS
19 PROCEDURE DONE FOR REPRODUCTIVE PURPOSES? THE RISK
20 SHOULDN'T BE THE SAME FOR THOSE TWO PEOPLE BECAUSE THE
21 BENEFIT TO THE DONOR WHO'S JUST DONATING EGGS FOR PAY
22 OR FOR WHATEVER OTHER PURPOSES, WE SHOULD BE VERY
23 CAREFUL TO PROTECT THE HEALTH OF THAT INDIVIDUAL, MAKE
24 SURE THAT THE RISKS ARE MINIMAL IN THIS CASE.

25 DR. GUIDICE: I GUESS THAT'S A COMMITTEE

1 DISCUSSION. I AGREE WITH YOU, AND THAT IS ONE OF THE
2 REASONS THAT ON THE SLIDES ABOUT MINIMIZING THE RISK
3 THERE WAS ALSO -- I'LL JUST GET TO THOSE -- BUT THERE
4 WAS, AGAIN, A COMMENT ABOUT A LOW THRESHOLD FOR
5 CANCELLATION. AND THERE'S A DIFFERENCE BETWEEN A
6 COUPLE WANTING TO GET PREGNANT, AGAIN NOT AT MAJOR RISK
7 FOR HEALTH, BUT THAT CERTAINLY IS SOMETHING THAT
8 DESERVES CONSIDERATION.

9 DR. OLDEN: AND THE OTHER ISSUE THAT I HAVE
10 IS ABOUT THIS RELATIONSHIP BETWEEN INFERTILITY
11 OVULATION AND OVARIAN CANCER RISK. IN THE CASE OF
12 INFERTILITY AND OVULATION, THE OVARIES HYPERTROPHY.
13 THERE'S NO EVIDENCE THAT THE OVARIES GROW, ENLARGE. IN
14 THE CASE OF THIS PROCEDURE, THEY DO. SO IS COMPARING
15 WHAT HAPPENS IN A CASE OF INFERTILITY AND OVULATION
16 WITH OVARIAN CANCER RISK VERSUS WHEN YOU ADMINISTER ALL
17 THESE HORMONES TO INDUCE EGG MATURATION AND
18 DEVELOPMENT, THE OVARIES ACTUALLY GROW TO BE MUCH
19 LARGER. AND PRESUMABLY THE OVARIES WOULD PRODUCE MUCH
20 MORE ESTROGEN, RIGHT?

21 DR. GUIDICE: YES.

22 DR. OLDEN: SO THE HORMONE LEVELS WOULD BE
23 VERY DIFFERENT IN THIS CASE THAN IN A WOMAN WHO DIDN'T
24 OVULATE, MY GUESS, BUT YOU MONITOR THAT. IS THAT THE
25 CASE? AND THAT IS THE CASE, I THINK. YOU DID MONITOR

1 HORMONE LEVEL.

2 DR. GUIDICE: THE ESTROGEN LEVELS DO GO UP,
3 AND THEY ARE -- AGAIN, IT'S TEMPORALLY RESTRICTED TO A
4 COUPLE WEEKS. SO THE THEORETICAL CONSIDERATION FOR AN
5 INCREASED RISK OF OVARIAN CANCER HAD TO DO WITH THE
6 NUMBERS OF OVULATIONS AND SUBSEQUENT REPAIR OF THE
7 SMALL AREA THAT THE EGG CAME OUT OF. AND THAT IF YOU
8 HAD MANY OVULATIONS, YOU MAY HAVE A COUPLE OF THE
9 REPAIR PROCESSES BECAUSE THERE ARE SO MANY THERE GOING
10 ON AT THE SAME TIME THAT MIGHT GO AWRY. AND,
11 THEREFORE, THE OUTSIDE OF THE OVARY, THE EPITHELIUM,
12 MAY THEN RESULT IN CANCER. THAT DOESN'T SEEM TO BE --
13 FROM ALL THE DATA THAT HAVE BEEN REVIEWED, THE RISK OF
14 OVARIAN CANCER DOESN'T SEEM TO BE RELATED TO UNDERGOING
15 OVULATION INDUCTION BECAUSE IF YOU TAKE A POPULATION OF
16 WOMEN WHO HAVE UNDERGONE OVULATION INDUCTION AND ARE
17 INFERTILE AND YOU TAKE A POPULATION OF WOMEN WHO HAVE
18 UNDERGONE OVULATION INDUCTION AND WHO ARE FERTILE, FOR
19 INSTANCE WITH MALE FACTOR, THEN THE RISK OF OVARIAN
20 CANCER IS IN THE INFERTILE POPULATION, NOT IN THE
21 OTHER. SO THAT'S THE CONCLUSION. THAT'S ONE OF THE
22 PIECES OF EVIDENCE.

23 DR. TAYLOR: I THINK THERE ARE A COUPLE OF
24 COMMENTS. SO ONE IS WE'RE NOT REALLY CERTAIN, IT'S
25 STILL KIND OF UNCLEAR WHAT THE SOURCE OF THE COMMON

1 OVARIAN CANCERS -- WHAT OVARIAN CELL IS ACTUALLY THE
2 SOURCE. IN FACT, THERE'S SOME PEOPLE WHO THINK IT
3 MIGHT NOT EVEN BE OVARIAN, BUT THAT'S GETTING A LITTLE
4 BIT STRANGE. THE HORMONES THAT WE USE FOR OVULATION
5 INDUCTION ARE, IN FACT, MITOGENS FOR THE GRANULOSIS
6 CELLS, BUT GRANULOSIS CELL TUMORS ARE EXTREMELY RARE,
7 AND THAT'S NOT ACTUALLY BEEN ASSOCIATED.

8 SO AS LINDA SUGGESTED, IT SEEMS LIKE IT'S THE
9 SURFACE EPITHELIAL CELLS WHICH AREN'T ACTUALLY
10 STIMULATED. THEY'RE NOT REALLY HORMONALLY RESPONSIVE.
11 SO THOSE SEEM TO BE WHERE THE OVARIAN CANCERS ARISE
12 FROM, AND THERE HASN'T BEEN A GOOD CORRELATION. SO
13 LINDA SUGGESTED THAT YOU'VE GOT SORT OF FERTILE AND
14 INFERTILE COUPLES, BUT THERE ARE ALSO WOMEN WITH
15 LONG-TERM INFERTILITY WHO DIDN'T UNDERGO OVULATION
16 INDUCTION WHO ARE AT INCREASED RISK OF OVARIAN CANCER.
17 SO THE ORIGINAL HYPOTHESIS, I THINK, WAS THAT THIS IS
18 ASSOCIATED WITH INFERTILITY AND, THEREFORE, IT'S
19 PROBABLY ASSOCIATED WITH THE MITOGENIC ACTIVITIES OF
20 THE HORMONAL MEDICATIONS THAT WE USE; BUT WHEN THEY'VE
21 KIND OF GONE THROUGH THESE LARGE EPIDEMIOLOGIC STUDIES,
22 AND THE GROUP AT STANFORD HAS BEEN REALLY QUITE
23 INVOLVED IN SOME OF THOSE, IT REALLY SEEMS TO BE MORE
24 ASSOCIATED WITH INFERTILITY THAN IT DOES WITH THE
25 OVULATION INDUCING AGENTS.

1 I AGREE THAT IT SORT OF TELIOLOGICALLY WOULD
2 MAKE SENSE THAT IT WOULD BE A HORMONE DRIVEN THING, BUT
3 THAT DOESN'T SEEM TO BE THE CASE.

4 CHAIRMAN LO: IF I COULD, COULD I FOLLOW UP
5 ON A QUESTION THAT DR. OLDEN RAISED BECAUSE HIS MIND
6 THINKS MUCH FASTER THAN MINE DOES. IF YOU GO BACK TO
7 THE OHSS SLIDE AND THE INCIDENCE OF IT, COULD I ASK THE
8 QUESTION ON THE SEVERE OHSS, THE ONE IN A THOUSAND OR
9 TWO IN A THOUSAND, AGAIN, MY UNDERSTANDING IS THAT
10 FIGURE INCLUDES WOMEN WHO HAVE HORMONAL STIMULATION
11 WITH HCG, BUT INCLUDES THOSE WHO GO ON TO BECOME
12 PREGNANT. IF YOU JUST LOOK AT THE WOMEN WHO GET HCG OR
13 RECOMBINANT LH, BUT DON'T GET PREGNANT, SO THIS WOULD
14 BE THE DONOR POOL RATHER THAN A WOMAN TRYING TO GET
15 PREGNANT HERSELF, DO WE KNOW WHAT THE INSTANCE OF
16 SEVERE OHSS IS IN THAT POPULATION? PRESUMABLY IT'S
17 LOWER THAN THE .1 TO .2. DO WE HAVE A SENSE OF HOW
18 MUCH LOWER?

19 DR. GUIDICE: NO. THE DATA ARE REPORTED -- I
20 WAS THINKING OF THE SART DATA. I DON'T THINK OHSS IS
21 REPORTED AS PART OF A DATASET. AND SO ONE IS THEN LEFT
22 WITH, AS LISTED, IN TERMS OF STUDY LIMITATIONS, WITH
23 SMALL STUDIES, RETROSPECTIVE REVIEWS. AND SO IT WOULD
24 HAVE BEEN MUCH BETTER HAD WE IN THESE ONE MILLION
25 CYCLES AND OF THE 14,000 EGG DONOR CYCLES PER YEAR,

1 WITH THE FIRST ONE STARTING IN 1994, SO 13 YEARS NOW OF
2 EGG DONOR CYCLES, SO IF WE DO THE MATH, IT'S A LOT OF
3 CYCLES, IT WOULD HAVE BEEN GOOD TO HAVE HAD SOME
4 ASSESSMENT OF EXACTLY THAT QUESTION AND BROKEN DOWN BY
5 MINIMAL OR MODERATE AND SEVERE.

6 CHAIRMAN LO: DO WE EVEN KNOW THAT FROM
7 SINGLE CENTER CASE SERIES, SAY AT THE CORNELL GROUP,
8 HAVE THEY LOOKED AT THE INCIDENCE OF SEVERE OHSS IN
9 DONORS WHO DON'T BECOME PREGNANT? THERE WOULD BE A BIG
10 CONFIDENCE INTERVAL, BUT DO WE KNOW WHAT THE POINT
11 ESTIMATE IS?

12 DR. GUIDICE: YES. ZEV ROSENWAKS, AND IT'S
13 ACTUALLY IN THE REPORT AS WELL, COMMENTED THAT OF THE,
14 I THINK IT WAS, 2,000 EGG DONORS THAT THEY HAVE DONE, I
15 BELIEVE THAT'S THE NUMBER, THEY HAVE HAD ZERO SEVERE
16 OHSS. AND PART OF THAT IS PATIENT SELECTION, LOW
17 THRESHOLD FOR NOT GIVING HCG BECAUSE, AGAIN, YOU DON'T
18 GET OHSS IF YOU DON'T GIVE HCG.

19 DR. TAYLOR: JUST A COMMENT ABOUT THE
20 RECOMBINANT LH, WHICH IS REALLY A GREAT IDEA BECAUSE
21 ALL IT TAKES IS REALLY A BRIEF STIMULATION OF THE LH
22 RECEPTORS TO GET OVULATION TO OCCUR TO INDUCE THAT
23 FINAL MATURATION THAT'S RESPONSIBLE, SO USING HCG WHICH
24 HAS A HALF-LIFE OF ABOUT 24 HOURS RATHER THAN
25 RECOMBINANT LH, WHICH HAS A HALF-LIFE OF AROUND 20

1 MINUTES, MAKES A LOT MORE SENSE, BUT IT'S NOT APPROVED
2 IN THE U.S. THROUGH THE FDA. BUT I BELIEVE THAT THE EU
3 FDA EQUIVALENT HAS ACTUALLY APPROVED IT IN EUROPE, SO
4 THERE'S PROBABLY GOING TO BE SOME MORE EXPERIENCE WITH
5 THAT, BUT UNFORTUNATELY THAT'S KIND OF AN EXPERIMENTAL
6 SOLUTION FOR A DONOR POPULATION. I'M NOT SURE THAT
7 WOULD BE A WISE RECOMMENDATION MAYBE TO MAKE AT THIS
8 POINT.

9 DR. GUIDICE: LUVARIS, WHICH IS RECOMBINANT
10 LH, WAS APPROVED BY THE COMMITTEE THAT I CHAIRED AT THE
11 FDA ON REPRODUCTIVE HEALTH DRUGS. AND THE INDICATION
12 FOR APPROVAL WAS FOR HYPOGONADOTROPHIC HYPOGONADISM,
13 BUT IT CAN ALWAYS BE USED OFF LABEL. THERE ARE OTHER
14 WAYS OF USING IT, BUT I HAVE NOT SEEN ANY -- THERE ARE
15 NO LARGE RANDOMIZED CONTROL TRIALS OF USE OF THAT FOR
16 THIS TYPE OF -- FOR FERTILITY THERAPY.

17 DR. ROWLEY: I JUST WANTED TO FOLLOW UP ON
18 THIS QUESTION OF DATA BECAUSE IT'S UNDERSTANDABLE WHY
19 THERE ARE NO DATA FROM THE UNITED STATES GIVEN OUR POOR
20 HEALTHCARE SYSTEM. BUT I WOULD HAVE THOUGHT IN EUROPE,
21 SCANDINAVIA, FOR EXAMPLE, BUT OTHER EUROPEAN COUNTRIES
22 WHERE THERE ARE BETTER DATA, WHY AREN'T THERE ANY
23 AVAILABLE FROM EUROPE ON THIS ISSUE OF WHAT'S THE
24 FREQUENCY OF OHSS AND THE VARIOUS GRADES?

25 DR. GUIDICE: IT'S A GOOD QUESTION. I'M

1 TRYING TO THINK, AGAIN, I DON'T BELIEVE THAT, FOR
2 INSTANCE, IN THE UK WHERE THE ENTIRE SYSTEM FOR THE
3 INFRASTRUCTURE IS SUCH THAT THERE'S A LARGE AMOUNT OF
4 DATA COLLECTION. I'M NOT AWARE AND I DON'T THINK
5 ANYBODY IN THE COMMITTEE WAS AWARE OR THE PARTICIPANTS
6 THAT THAT'S PART OF THE DATA ACQUISITION AND THE
7 DATABASE.

8 ALSO, IT'S NOT CLEAR THAT -- WELL, I JUST
9 DON'T KNOW WHETHER SOME PROGRAMS WOULD WANT TO REPORT
10 SOME OF THEIR SEVERE. IF YOU PUT OUT A REPORT THAT IN
11 OUR CASE SERIES, WE HAVE 8 PERCENT SEVERE OVARIAN
12 HYPERSTIMULATION SYNDROME, I SERIOUSLY DOUBT THAT YOU'D
13 HAVE VERY MANY PATIENTS GOING TO YOU. SO THAT MAY BE
14 PART OF THE ISSUE. I DON'T KNOW.

15 DR. OLDEN: BUT FOLLOWING UP ON THAT COMMENT,
16 I HAD THE SAME ISSUE BECAUSE I WOULD THINK THE
17 SCANDINAVIAN COUNTRIES IN PARTICULAR, I'M NOT SURE THE
18 UK, BUT THE SCANDINAVIANS, I BET YOU, HAVE THAT DATA.
19 AND SO THEY MAYBE JUST HAVEN'T ANALYZED IT BECAUSE
20 OBVIOUSLY THAT TAKES A LOT OF RESOURCES. BUT MAYBE
21 THIS INITIATIVE SHOULD THINK ABOUT FUNDING A STUDY TO
22 GET THAT DATA BECAUSE I CAN'T IMAGINE NORWAY DOESN'T
23 HAVE IT. THEY HAVE A LOT OF WORK IN THIS AREA.

24 DR. TAYLOR: I'M CURIOUS, LINDA. DO YOU HAVE
25 ANY IDEA ABOUT HOW WELL DEVELOPED THE EGG DONOR

1 BUSINESS IS OUTSIDE OF THE U.S.? I THINK MOST OF THE
2 STUDIES THAT I'VE READ HAVE COME FROM U.S. CENTERS.
3 I'M JUST SORT OF WONDERING WHETHER -- I MEAN A LOT OF
4 SORT OF THE SCANDINAVIAN COUNTRIES, A LOT OF THE
5 EUROPEAN COUNTRIES HAVE IVF AS A COVERED SERVICE IN
6 THEIR HEALTHCARE SYSTEM. I DON'T KNOW ABOUT EGG
7 DONATION. AND I'M JUST KIND OF CURIOUS. IT MIGHT BE
8 THAT THERE ARE NOT AS MANY DATA AS WE'D LIKE ELSEWHERE
9 IN THE WORLD EITHER.

10 DR. GUIDICE: COUNTRIES LIKE ITALY, FOR
11 INSTANCE, WHERE ASSISTED REPRODUCTION WENT THROUGH A
12 HEYDAY AND THEN ALMOST GROUND TO A HALT, EGG DONATION
13 IS JUST NOT PART OF THE SERVICES RENDERED. I DON'T
14 KNOW ABOUT -- IT CERTAINLY IS PART OF THE SERVICES
15 RENDERED IN THE UK AND BELGIUM, WHICH HAS ONE OF THE
16 MOST ADVANCED ART SYSTEMS. I DON'T KNOW ABOUT THE
17 OTHER COUNTRIES. MY SENSE IS THAT IT'S NOT ALL THAT
18 WELL DEVELOPED.

19 CHAIRMAN LO: ONE THING IS THAT MANY OF THE
20 EU COUNTRIES DO NOT ALLOW PAYMENT BEYOND REIMBURSEMENT
21 OF EXPENSES TO OOCYTE DONORS, SO THERE ARE VERY FEW
22 WOMEN COMING FORWARD TO DONATE THEIR OOCYTES FOR
23 CLINICAL IVF UNLIKE HERE.

24 DR. OLDEN: I HAVE ANOTHER CONCERN, IF YOU
25 DON'T MIND. THAT WAS A GOOD REPORT, SO I'M NOT -- I

1 ENJOYED IT AND APPRECIATED IT. WHAT ARE WE DOING TO
2 ENCOURAGE WOMEN FROM SOCIOECONOMIC DISADVANTAGED
3 BACKGROUNDS, AND I'M THINKING HERE OF, I GUESS, THE
4 WOMEN WHO WERE IN THE STUDY WERE MOSTLY UPPER INCOME,
5 UPPER MIDDLE CLASS OR HIGHER. BUT BECAUSE I'M THINKING
6 ABOUT NOT SO MUCH CO-MORBIDITIES BUT -- WELL, MAYBE
7 CO-MORBIDITIES, BUT DIET, FOR EXAMPLE, MAY BE A VERY
8 IMPORTANT FACTOR. THE IMMUNE SYSTEM, WHETHER ONE IS
9 IMMUNE SUPPRESSED, MAY ALSO BE AN ISSUE. AND I ASSUME
10 THESE WERE MAINLY CAUCASIAN WOMEN. WAS THAT THE CASE?
11 WELL, AT LEAST THE LOW-INCOME CAUCASIAN WOMEN SHOULD
12 ALSO BE LOOKED AT, AND WE SHOULD DO SOMETHING BECAUSE I
13 REMEMBER WE SPENT A FAIR AMOUNT OF TIME DISCUSSING THAT
14 ISSUE TO MAKE SURE THAT THE FULL SPECTRUM OF
15 SOCIOECONOMIC CLASS AS WELL AS RACE BE INCLUDED.

16 NOW, GRANT YOU, SO WE HAVE TO DEVELOP SOME
17 INITIATIVES TO ENCOURAGE THESE POPULATIONS TO DONATE
18 EGGS, FOR EXAMPLE. SO I THINK THAT THE FACT THAT WE
19 DON'T HAVE DATA ON CERTAINLY LOW-INCOME CAUCASIANS IS A
20 WEAKNESS, AND WE SHOULD DO SOMETHING TO ENCOURAGE THAT,
21 IT SEEMS, BECAUSE THESE PEOPLE ARE LIKELY TO BE
22 MALNOURISHED, AND CERTAINLY THAT MAY HAVE SOME EFFECT
23 ON THEIR RISK.

24 DR. GUIDICE: AND THE COMMITTEE DISCUSSED THE
25 HEALTH DISPARITY IN TERMS OF DATA DISPARITY. AND

1 BECAUSE OUR CHARGE WAS NOT TO MAKE RECOMMENDATIONS, WE
2 DID NOT MAKE RECOMMENDATIONS, BUT YOUR POINT IS
3 EXTREMELY WELL TAKEN.

4 CHAIRMAN LO: ANY OTHER QUESTIONS FROM
5 COMMITTEE MEMBERS? ANY QUESTIONS FROM ANYONE IN THE
6 AUDIENCE?

7 DR. OLDEN: I HAVE ANOTHER ISSUE, BUT IT'S
8 NOT FOR THE PRESENTER. IT'S FOR THE COMMITTEE TO
9 DISCUSS, AND I WONDER WILL THERE BE OPPORTUNITY LATER
10 ON TODAY OR TOMORROW TO DISCUSS THAT?

11 CHAIRMAN LO: ABSOLUTELY. IN FACT, WE'RE
12 GOING TO SEGUE INTO THE DISCUSSION TO FOLLOW UP. DR.
13 GUIDICE IS ACTUALLY ON HER WAY TO THE AIRPORT.

14 DR. OLDEN: IT WAS A GOOD PRESENTATION.

15 MR. REYNOLDS: WELL, IT'S NOT SO MUCH A
16 QUESTION AS MUCH AS IT'S COMMENT ON A, I THINK, A
17 CRITICAL PASSAGE HERE IN THE REPORT.

18 CHAIRMAN LO: JUST FOR THE RECORD, COULD
19 WE --

20 MR. REYNOLDS: I JUST HOPE THIS IS THE
21 APPROPRIATE TIME FOR SUCH A COMMENT. SO I'M JESSE
22 REYNOLDS FROM THE CENTER FOR GENETICS AND SOCIETY. AND
23 I JUST THINK IT'S IMPORTANT TO STEP BACK FROM THE
24 REPORT AND LOOK AT -- ASK AND REFLECT ON WHY WE'RE
25 LOOKING AT EGG DONATION FOR STEM CELL RESEARCH IN THE

1 FIRST PLACE. WHAT IS THE RELATIONSHIP BETWEEN EGG
2 DONATION AND STEM CELL RESEARCH?

3 AND THE PASSAGE THAT'S USED ABOUT THREE TIMES
4 IN THE REPORT SAYS -- THIS IS JUST FROM PAGE 7. IT'S
5 IN A NUMBER OF DIFFERENT PLACES -- THE REQUIRED SUPPLY
6 OF STEM CELLS ARE COLLECTED FROM DEVELOPING HUMAN
7 EMBRYOS CREATED FROM EGGS OR OOCYTES HARVESTED FROM THE
8 OVARIES OF FEMALE DONORS. THUS, MUCH OF THE PROMISE OF
9 STEM CELLS DEPENDS ON WOMEN CHOOSING TO DONATE OOCYTES
10 TO THE RESEARCH EFFORT.

11 AND GIVEN THAT, AS FAR AS I KNOW, ALL STEM
12 CELL -- ALL EMBRYONIC STEM CELL LINES TO DATE WERE
13 DERIVED FROM EMBRYOS LEFT OVER FROM IVF PROCEDURES. I
14 DON'T KNOW OF ANY STEM CELL RESEARCH BEING CONDUCTED
15 USING EMBRYOS CREATED THROUGH FERTILIZATION
16 SPECIFICALLY FOR EMBRYONIC STEM CELL RESEARCH. THIS
17 LIMITS THE USE OF EGGS DERIVED SPECIFICALLY FOR
18 RESEARCH SOLELY TO SCNT, WHICH AT THIS POINT IN TIME
19 HAS NOT DERIVED -- HAS NOT SUCCESSFULLY LED TO THE
20 DERIVATION OF ANY STEM CELL LINES AND IS BEING
21 CONDUCTED AT AN EXPERIMENTAL LEVEL IN ABOUT FIVE
22 RESEARCH CENTERS IN THE U.S., AROUND THAT NUMBER, A
23 HANDFUL. AND I JUST FEEL THAT THE WAY THAT THIS
24 PASSAGE IS WORDED INDICATES THAT, AS IT CURRENTLY
25 STANDS, THE DONATION OF EGGS SPECIFICALLY FOR RESEARCH

1 IS A CRITICAL PART OF MUCH OF THE PROMISE OF STEM
2 CELLS, AS THIS SAYS, I THINK IS INACCURATE. I JUST
3 WANT TO GET THAT ON THE RECORD. THANK YOU.

4 CHAIRMAN LO: THANK YOU. IF THERE ARE NO
5 OTHER QUESTIONS, I'D LIKE TO THANK DR. GUIDICE AGAIN
6 FOR THE REPORT AND ALSO FOR COMING AND PRESENTING
7 THINGS SO CLEARLY AND ANSWERING OUR QUESTIONS. THANKS.

8 HOW DO YOU GUYS FEEL ABOUT TAKING A BREAK AND
9 STRETCHING A BIT BECAUSE WE WANT TO TAKE WHAT THIS
10 REPORT IS, AND THEN WE HAVE SOME SUGGESTIONS ON NEXT
11 STEPS BUILDING OFF THIS REPORT. LET'S TAKE A
12 TEN-MINUTE BREAK AND STRETCH OURSELVES.

13 (A RECESS WAS TAKEN.)

14 CHAIRMAN LO: OKAY. SO ON YOUR DESK IS A
15 REPRINT OF THE ASRM GOOD PRACTICE GUIDELINES FOR
16 PREVENTING OHSS, WHICH WAS IN *FERTILITY AND STERILITY*
17 LAST NOVEMBER. OKAY. SO WHAT I WANT TO DO IS SORT OF
18 BUILD UPON THIS PRESENTATION BY DR. GUIDICE AND THE IOM
19 REPORT, AND TO SAY THAT OBVIOUSLY THERE IS A LOT OF
20 INTEREST IN TRYING TO DERIVE SCNT-RELATED LINES. THAT
21 WAS PART OF THE -- IT WAS TALKED ABOUT DURING THE
22 STRATEGIC PLAN DISCUSSIONS, AND CERTAINLY IN PROP 71
23 ITSELF THERE'S A LOT THERE ABOUT THE CONSTITUTIONAL
24 RIGHT TO SCNT AND SORT OF THE WANTING TO FUND THAT
25 AMONG OTHERS BECAUSE NIH WASN'T FUNDING IT.

1 I THINK MY UNDERSTANDING, I DON'T DO THIS
2 SCIENTIFICALLY, BUT MY UNDERSTANDING IS THE HOPE IS
3 THAT DISEASE-SPECIFIC SCNT LINES WHERE THE DNA, THE
4 SOMATIC DNA, ACTUALLY IS FROM A PATIENT WITH A SERIOUS
5 CONDITION LIKE ALS, THE LINE THAT KEVIN EGGAN'S GROUP
6 DERIVED, WOULD BE A MODEL FOR STUDYING THE DISEASE IN
7 THE LABORATORY AND BY ELUCIDATING SORT OF THE
8 PATHOGENESIS OF DISEASE WOULD POTENTIALLY OFFER NEW
9 DRUG TARGETS, NOT NECESSARILY FOR STEM CELL RESEARCH,
10 BUT TO FIND OTHER WAYS OF DEVELOPING POTENTIAL TESTS OR
11 HOPEFULLY TREATMENTS FOR DISEASES.

12 ANYWAY, CLEARLY IT IS VERY CONCEIVABLE THAT
13 SOMEONE WILL APPLY TO CIRM FOR FUNDING TO DERIVE A LINE
14 THAT WOULD REQUIRE FRESH OOCYTES. AND I THINK GIVEN
15 ALL THE CONCERNS THAT HAVE BEEN RAISED BY ADVOCACY
16 GROUPS, BY WOMEN'S GROUPS, CERTAINLY IN LIGHT OF THE
17 EXPERIENCE WITH THE SOUTH KOREAN SCANDAL THAT
18 DR. HWANG'S GROUP PERPETRATED WHERE THE RISK OF OVARIAN
19 HYPERSTIMULATION SYNDROME WAS EXCEEDINGLY HIGH, IT WAS
20 ABOUT 20, 25 PERCENT, WE WOULD WANT, AS I THINK KEN
21 OLDEN SAID BEFORE THE BREAK, WE WANT THIS TO BE
22 MINIMIZED IN THIS GROUP BECAUSE THEY'RE DONATING REALLY
23 FOR RESEARCH, NOT TO HELP THEMSELVES, NOT EVEN TO HELP
24 ANOTHER WOMAN BEAR A CHILD. SO I THINK, AS WE ALWAYS
25 DO IN RESEARCH, WE WANT TO MINIMIZE THOSE RISKS.

1 AND IT STRUCK US, US BEING ME AND ZACH HALL
2 AND GEOFF AT CIRM, THAT THIS REPORT WAS COMMISSIONED AS
3 A WORKSHOP, WHICH MEANS IT DOESN'T GIVE
4 RECOMMENDATIONS. IT JUST GIVES SUMMARIES OF
5 PRESENTATIONS FROM EXPERTS AND DISCUSSION AMONG THE
6 PEOPLE IN THE AUDIENCE. BUT THERE IS SORT OF A -- AS
7 WE HEARD, THERE'S NO RANDOMIZED CLINICAL TRIALS HERE OF
8 MONITORING IN ONE WAY OR ANOTHER TO SORT OF REDUCE
9 OHSS, BUT THERE ARE CERTAINLY EXPERIENCED CENTERS WHO
10 HAVE TRIED TO MINIMIZE OHSS, AND THAT WISDOM, IT
11 STRIKES ME, SHOULD BE BUILT UPON AND CONSOLIDATED. AND
12 AS WE TRY TO LOOK IN THE LITERATURE, AND I'VE DONE ALSO
13 AT UCSF WHERE WE DO HAVE PROTOCOLS THAT OUR SCRO
14 COMMITTEE HAS HAD TO LOOK AT TO RECRUIT OOCYTE DONORS
15 FOR STEM CELL RESEARCH, TRYING TO LOOK AT PUBLISHED
16 GUIDELINES FOR MINIMIZING THE RISK OF OHSS IN THE
17 RESEARCH SETTING. AND BECAUSE IT IS DIFFERENT THAN A
18 CLINICAL SETTING, HOW MUCH SAFER CAN YOU BE IS THE
19 QUESTION.

20 SO THIS IS A LONG KIND OF LEAD-IN TO THE IDEA
21 THAT CIRM COMMISSIONED A GROUP OF EXPERTS IN
22 REPRODUCTIVE SCIENCES TO REALLY ADDRESS THE QUESTION IN
23 SOMEWHAT MORE DETAIL THAN WAS DONE FROM PAGES,
24 WHATEVER, 54 TO THE END. WHAT GUIDELINES WOULD YOU
25 WANT RESEARCHERS AND ALSO IRB'S OR SCRO'S THAT APPROVE

1 THIS RESEARCH TO THINK ABOUT AS THEY'RE EITHER DEVISING
2 A PROTOCOL OR OVERSEEING A PROTOCOL? AND, AGAIN, THE
3 ASSUMPTION WOULD HAVE TO BE THERE'S SCIENTIFIC MERIT,
4 THEY'VE THOUGHT OF OTHER ALTERNATIVES, ETC., ETC.; BUT
5 IF THERE'S A GOOD, STRONG SCIENTIFIC REASON TO USE
6 FRESH DONOR OOCYTES, THEN WHAT SHOULD BE IN PLACE --
7 WHAT ISSUES NEED TO BE CONSIDERED, WHAT STEPS SHOULD BE
8 CONSIDERED TO MINIMIZE RISKS TO OOCYTE DONORS? SO THE
9 NOTION IS TO CONVENE AN EXPERT PANEL TO TRY TO MAKE
10 RECOMMENDATIONS.

11 I THINK WHAT DO WE DO WITH THAT? I THINK
12 THEY WOULD PRESENT TO US AS THE SWG. WE WOULD THEN, I
13 THINK, WANT TO TAKE IT TO THE ICOC, EACH STEP OF THAT
14 PROCESS. BOTH OUR MEETING AND THE ICOC MEETING, THERE
15 WOULD BE AMPLE FOR TIME FOR DISCUSSION AND PUBLIC
16 INPUT. I THINK THE STARTING POINT WOULD BE TO GET A
17 SMALL NUMBER OF EXPERTS IN THE FIELD TO SAY HOW WOULD
18 YOU DO IT IF YOU WERE TRYING TO MINIMIZE RISK OUTSIDE
19 THE CLINICAL SETTING IN THE RESEARCH SETTING?

20 SO I WANT TO PRESENT THAT AS SORT OF WHAT
21 MIGHT WELL BE A STEP WE WOULD WANT TO TAKE TO FOLLOW UP
22 ON THE PREVIOUS REPORT. LET ME STOP THERE.

23 DR. PETERS: BERNIE, ARE YOU HAVING IN MIND
24 THAT WOULD BE INTERNAL TO THE SWG? OR WHAT ABOUT KEN'S
25 SUGGESTION OF ACTUALLY FUNDING IT AS A RESEARCH

1 PROJECT? OF COURSE, HE WAS TALKING ABOUT GATHERING
2 DATA. HE WASN'T REALLY TALKING ABOUT RISK
3 MINIMIZATION.

4 CHAIRMAN LO: WE WERE ACTUALLY THINKING OF
5 NOT DOING IT INTERNALLY AT SWG, BUT ACTUALLY ASKING
6 PEOPLE WHO ARE IVF ART EXPERTS WHO HAVE A LOT OF
7 EXPERIENCE WITH IT TO SAY WHAT WOULD YOU RECOMMEND THAT
8 WE DO? WE ALSO THOUGHT IT WOULD BE GOOD TO HAVE PEOPLE
9 FROM OUTSIDE CALIFORNIA BECAUSE OF THE POTENTIAL THAT
10 PEOPLE IN CALIFORNIA -- I HOPE THAT WASN'T OUR
11 DINNER -- TO HAVE PEOPLE FROM OUTSIDE CALIFORNIA SERVE
12 AS EXPERTS JUST TO AVOID, NOT ONLY ANY CONFLICT, EVEN
13 THE APPEARANCE OF CONFLICT, BUT I THINK IT WOULD BE
14 EXPERTS WHICH WE REALLY DON'T HAVE ON THE PANEL EXCEPT
15 FOR ONE EXCEPTION THAT WE'LL TALK ABOUT IN A MINUTE;
16 NAMELY, ROB.

17 DR. LOMAX: JUST TO ADD ONE OTHER COMMENT TO
18 THAT IS THAT FROM A STANDPOINT OF ADMINISTRATIVE SORT
19 OF SIMPLICITY AND TO MOVE FORWARD IN A SORT OF
20 EXPEDIENT WAY, THAT THE MOST EFFICIENT MECHANISM
21 AVAILABLE IS FOR CIRM TO COMMISSION CONSULTANTS TO MAKE
22 RECOMMENDATIONS. AND THAT GETS THAT STEP DONE MOST
23 EFFICIENTLY IF IT'S DEEMED TO BE THE BEST APPROACH.

24 CHAIRMAN LO: THE RECOMMENDATIONS WOULD BE TO
25 THIS COMMITTEE TO THEN DELIBERATE AND DECIDE WHETHER TO

1 RECOMMEND TO ICOC.

2 DR. LOMAX: CORRECT. CERTAINLY AT THAT POINT
3 THEN YOU WOULD WANT CERTAINLY THE BLESSING OF THIS
4 COMMITTEE AND THEN FORWARD IT TO ICOC. I THINK THAT'S
5 THE SPIRIT.

6 DR. PETERS: WHAT'S THE LEVEL OF URGENCY IF
7 WE DID WHAT GEOFF IS SUGGESTING AND BRING IN A VARIETY
8 OF CONSULTANTS? WOULD THAT BE QUICKER? AND IF SO, IS
9 THAT AN ADVANTAGE?

10 DR. LOMAX: CERTAINLY IT'S THE MOST EXPEDIENT
11 MECHANISM AVAILABLE TO US. I WOULD HESITATE TO COMMENT
12 ON THE SENSE OF URGENCY BECAUSE AT THE MOMENT WE KNOW
13 OF NO DONATION AT THIS TIME THAT'S GOING ON WITH FRESH
14 OOCYTES FOR RESEARCH. SO THAT'S A QUESTION MARK.

15 CHAIRMAN LO: BUT I THINK, IF I COULD SORT OF
16 COMMENT JUST ON TED'S QUESTION, I THINK IT WOULD BE
17 PREFERABLE TO HAVE GUIDELINES IN PLACE BEFORE SOMEONE
18 SUBMITS A GRANT TO US TO SAY THAT WE THOUGHT ABOUT
19 THIS. IF YOU ARE GOING TO SUBMIT A GRANT, WE WANT YOU
20 TO HAVE THOUGHT ABOUT IT AS WELL RATHER THAN TO SORT OF
21 SAY, WELL, HERE'S AN INTERESTING GRANT. THEY HAVEN'T
22 REALLY THOUGHT ABOUT THIS. SHOULD WE FUND THEM ANYWAY?
23 THERE ARE MANY GROUPS WHO ARE TRYING TO DO THIS WITH
24 FUNDS OTHER THAN CIRM FUNDING. SO I THINK THERE'S A
25 LOT OF INTEREST IN DERIVING -- SO FAR, AS ONE OF THE

1 PUBLIC COMMENTERS SAID, THESE HAVE NOT BEEN SUCCESSFUL.
2 THERE'S CERTAINLY A LOT OF EFFORT IN THE UK. ALISON
3 MURDOCK AT NEWCASTLE AND IAN WILMOT ARE BOTH WORKING ON
4 THIS. IN THE U.S. THERE ARE A NUMBER OF GROUPS,
5 INCLUDING ACTUALLY, AGAIN DISCLOSURE, A GROUP AT UCSF
6 TRYING TO DO THAT. I THINK ROGER PETERSON.

7 DR. TAYLOR: WE TRIED IN THE PAST.

8 CHAIRMAN LO: SO THERE'S A LOT OF INTEREST IN
9 DOING THIS. IT'S VERY INTERESTING. A LOT OF PEOPLE
10 HAVE SAID THAT IF THERE IS A STEM CELL LINE WITH A
11 DISEASE I'M INTERESTED IN STUDYING, I WOULD WANT TO
12 HAVE ACCESS TO THAT TO BE ABLE TO CARRY OUT OTHER TYPES
13 OF STUDIES.

14 MR. SHEEHY: I GUESS I HAVE A COUPLE OF
15 QUESTIONS. AND I THINK WE HAVE FUNDED ONE SCNT STUDY
16 ALREADY. I THINK WE FUNDED RENE PARA. I THINK THAT'S
17 THE STANFORD COMPREHENSIVE. I THINK THAT IS SCNT. WE
18 HAVE ANOTHER THAT'S IN A GRAY AREA THAT'S USING FROZEN
19 EGGS. I DON'T REMEMBER WHAT THE PROVENANCE WAS OF HOW
20 SHE WAS -- I DON'T REMEMBER THE DETAILS OF HER STUDY
21 MAINLY BECAUSE IT WAS A UCSF STUDY. I THINK WE FUNDED
22 IT, AND THEN IT --

23 CHAIRMAN LO: RENE MOVED.

24 MR. SHEEHY: I DON'T THINK I EVER SAW IT.
25 AND I KNOW THAT FROM THE GRANTS WORKING GROUP THAT

1 THERE'S A LOT OF INTEREST IN FUNDING -- THE DIRECTIVE
2 BACK TO THE ICOC HAS BEEN OR TO CIRM HAS BEEN TO
3 ENCOURAGE FUTURE RFA'S THAT WOULD ELICIT MORE SCNT
4 APPLICATIONS. SO I THINK, YOU KNOW, WE HAVE KIND OF,
5 AT LEAST FROM MY PERSPECTIVE, BECAUSE I THINK I SHARE
6 SOME OF DR. OLDEN'S CONCERN. THIS IS GOING ON AS WE
7 SPEAK. AND, YOU KNOW, WE'RE TALKING ABOUT GETTING MORE
8 INFORMATION BEFORE WE PUT IN PLACE POLICIES THAT SHOULD
9 BE IMPACTING THINGS THAT MAY BE BEFORE US BEFORE THE
10 POLICIES ARE IN PLACE. DOES THAT MAKE SENSE?

11 AND I KNOW ONE OF THE MORE CONTROVERSIAL -- I
12 HAD SUGGESTED INTERNALLY THAT WE BRING ONE OF THE MORE
13 CONTROVERSIAL, MAINLY THE FROZEN EMBRYO, FROZEN EGG
14 ONE, TO THIS WORKING GROUP TO REVIEW. AND I DON'T KNOW
15 IF WE MIGHT WANT TO POTENTIALLY CONSIDER IN THIS
16 INTERIM PERIOD MAYBE REVIEWING -- YOU KNOW, HAVING THIS
17 GROUP, AND WE CAN MEET TELEPHONICALLY. WE WOULDN'T ALL
18 HAVE TO COME TOGETHER, BUT MAYBE HAVING A REVIEW. MY
19 COMFORT LEVEL -- THE FROZEN EGG ONE HAD NOT EVEN BEEN
20 TO A SCRO. A SCRO HAD NOT BEEN SET UP TO REVIEW IT,
21 AND WE'D ALREADY APPROVED THE FUNDS.

22 I JUST DON'T -- THIS IS THE ONE AREA OF THE
23 WHOLE ENTERPRISE THAT I HAVEN'T EVER FOUND MY FEET ON
24 PERSONALLY. AND I DON'T KNOW IF THAT'S OF INTEREST
25 HERE TO MAYBE HAVE A LOOK AT THOSE. I'M NOT SENSING

1 THAT THERE'S THOUSANDS OF THEM COMING ACROSS, BUT THE
2 WAY WE'RE SET UP NOW IS IF THE UNIVERSITY HAS A SCRO,
3 THE SCRO LOOKS AT IT THAT'S CERTIFIED, BUT I JUST
4 HAVEN'T -- MY GUT FEELS A LITTLE UNEASY ABOUT THESE EGG
5 ISSUES AND WHETHER WE'RE REALLY GETTING AN APPROPRIATE
6 LEVEL OF SCRUTINY BEFORE WE FUND THESE. I'M JUST
7 PUTTING THAT OUT THERE. I DON'T HAVE A SPECIFIC
8 SUGGESTION.

9 AND I AGREE WITH GOING FORWARD AND COLLECTING
10 MORE DATA AS EXPEDITIOUSLY AS POSSIBLE, BUT I FEEL THAT
11 PROBABLY BEFORE THE END OF THIS YEAR WE WILL BE FUNDING
12 SCNT GRANTS. I'M ALMOST CERTAIN THAT WILL BE TRUE.

13 CHAIRMAN LO: WELL, AGAIN, LET ME SORT OF
14 JUST TRY AND MAKE A CLARIFYING COMMENT, JEFF. I THINK
15 YOU'RE WANTING TO FEEL ETHICALLY SECURE ABOUT ANY SCNT
16 RESEARCH THAT CIRM FUNDS, I THINK, IS SOMETHING THAT
17 HAS -- MANY PEOPLE CERTAINLY HOLD THAT AS AN
18 ASPIRATION. WHAT I WAS TALKING ABOUT, WHICH I THINK IS
19 DIFFERENT FROM WHAT KEN OLDEN WAS TALKING ABOUT
20 EARLIER, WAS SUGGESTING NOT COLLECTING DATA, BUT
21 ACTUALLY JUST GOING AND TRYING TO GET THE BEST THINKING
22 OF PEOPLE WHO DO A LOT OF CLINICAL ART AND SAYING, IF
23 WE WANT TO MINIMIZE THE RISK OF OHSS IN OOCYTE DONORS,
24 WHAT WOULD YOU ALL SUGGEST BE SORT OF THE GUIDELINES,
25 THE RULES OF THUMB, THE ISSUES THAT PEOPLE SHOULD BE

1 CONSIDERING? AND LET US PUT THAT IN PLACE TO HELP, I
2 GUESS, THE APPLICANTS WHO ARE PRESENTING PROTOCOLS, THE
3 SCRO'S AND IRB'S THAT REVIEW THEM, AND POTENTIALLY ALSO
4 THE CIRM.

5 IT STRIKES ME WE WOULD WANT TO MAKE SURE THAT
6 ANYTHING THAT WE WERE FUNDING WOULD HAVE ADDRESSED ALL
7 THOSE POINTS. AND, AGAIN, MY SENSE IS THAT THERE'S A
8 LOT OF GOOD THINKING OUT THERE, BUT PEOPLE ARE DOING IT
9 IN -- THEY HAVEN'T BROUGHT DIFFERENT CENTERS TOGETHER
10 AND SAID LET'S SORT OF GET THE BEST OF THE BEST.

11 DR. ROWLEY: I THINK I WOULD CERTAINLY
12 SUPPORT THAT BECAUSE MANY DIFFERENT GROUPS AND STATES
13 ARE STRUGGLING WITH A NUMBER OF THESE ISSUES. AND I
14 THINK ONE OF THE GOOD THINGS ABOUT THE NATIONAL ACADEMY
15 REPORT INITIALLY AND THE CLARIFICATION OF SOME OF THE
16 GUIDELINES HAS BEEN THAT AT LEAST THERE IS SOMETHING
17 OUT THERE FOR PEOPLE TO LOOK AT AND DECIDE DO WE AGREE.
18 DOES IT FIT WHAT WE NEED OR NOT. AND IF CIRM CAME UP
19 WITH SOME GUIDELINES, I'M SURE THAT THEY WOULD BE
20 INCORPORATED OR AT LEAST CONSIDERED VERY STRONGLY AND
21 CAREFULLY BY OTHER GROUPS FACING THE SAME PROBLEM OR
22 WHO ALREADY ARE FURTHER DOWN THE LINE THAN CIRM IS.

23 MS. KING: I'M STILL TRYING TO WORK IT OUT IN
24 MY HEAD, BUT IT GOES SOMETHING LIKE THIS. I UNDERSTAND
25 WHY YOU'RE MAKING YOUR PROPOSAL, BERNIE, AND PART OF ME

1 THINKS IT'S A GOOD IDEA TO AT LEAST TRY TO CAPTURE BEST
2 PRACTICES FROM PEOPLE WHO HAVE BEEN WORKING IN THIS
3 AREA ALL ALONG, THE CLINICIANS. WHAT I FIND TROUBLING
4 IS CAPTURING -- I'M TRYING TO PUT IT TOGETHER --
5 CAPTURING BEST PRACTICES AT THIS TIME MEANS THAT WE
6 MOVE FULL FORCE INTO THE CLINICAL AREA WITHOUT HAVING
7 DEALT WITH SOME OF THE DEFICIENCIES IN THE RESEARCH AS
8 IT EXISTS.

9 AND SO WHAT I'M TRYING -- AND YOU KNOW ME,
10 BERNIE, WELL TO KNOW THAT THE BIGGEST DEFICIENCY -- I
11 MEAN THERE ARE LOTS OF DEFICIENCIES, BUT THE ONE THAT
12 I'M MOST INTERESTED IN IS THAT WHAT WE KNOW COMES
13 BASICALLY FROM UPPER INCOME WOMEN, NOT LOWER INCOME
14 WOMEN AND CERTAINLY NOT RACIALLY AND ETHNICALLY DIVERSE
15 WOMEN. AND I'VE BEEN AROUND LONG ENOUGH NOW WITH THE
16 GRAY HAIR TO SEE THAT WHEN YOU MOVE INTO THE CLINICAL
17 ARENA ON THAT KIND OF BASE, YOU NEVER COME OUT OF IT.
18 AND THERE'S A CERTAIN KIND OF PROBLEM. THAT'S WHY YOU
19 SEE MY PUZZLEMENT BECAUSE I DON'T OBJECT TO WHAT YOU'RE
20 SAYING.

21 I'M TRYING TO LOOK FOR AN OPPORTUNITY BECAUSE
22 WHAT RESEARCH WE HAVE DOESN'T APPLY TO ALL POTENTIAL
23 DONORS. THERE ARE CLINICAL IMPLICATIONS OF THAT IN
24 TERMS OF HOW YOU GOT INFORMED CONSENT, HOW YOU TRY TO
25 DO YOUR RECRUITING, AND WHY YOU TRY TO DO YOUR

1 RECRUITING. BUT IT ALSO LEAVES ME WITH THAT DILEMMA,
2 WHICH MAYBE IS A SECOND ISSUE, ABOUT IF WE HAVE TO
3 ACTUALLY USE DONORS FOR LONGER PERIODS THAN WE THINK --
4 THAN WE'RE CURRENTLY ANTICIPATING, THAT MAYBE THERE'S
5 SOMETHING THAT SHOULD BE DONE WITH RESPECT TO CAPTURING
6 MORE DATA ABOUT WHAT PRACTICES ARE.

7 I DON'T KNOW IF THAT HELPS, BUT THAT IS MY
8 BEWILDERMENT BECAUSE --

9 CHAIRMAN LO: LET ME PUSH A LITTLE BEYOND
10 THAT BECAUSE IT STRIKES ME, IF I TRY AND TAKE ANOTHER
11 STEP DOWN WHAT YOU SAID, AND I GUESS I WOULD TIE IT
12 BACK TO WHAT KEN OLDEN SAID, SORT OF WANTING TO HAVE
13 THE POOL OF OOCYTE DONORS FOR RESEARCH TO SOME EXTENT
14 BE REPRESENTATIVE OF THE POPULATION AS A WHOLE. AND
15 THERE ARE SCIENTIFIC REASONS FOR WANTING TO DO THAT AS
16 WELL.

17 MS. KING: RIGHT.

18 CHAIRMAN LO: PAT, IF I COULD SORT OF TAKE A
19 COUPLE STEPS BEYOND WHAT YOU WERE SAYING, IN THAT
20 INFORMED CONSENT PROCESS, IF I'M TALKING TO A WOMAN OF
21 COLOR TO WHOM THE CURRENT DATA ON RISK MAY NOT APPLY
22 FOR A NUMBER OF REASONS, WE'RE TRYING TO SAY IT WOULD
23 BE A GOOD THING TO HAVE MORE OOCYTES FROM PEOPLE LIKE
24 YOU. ON THE OTHER HAND, IN ALL HONESTY, WE'D HAVE TO
25 SAY ALL THE DATA WE KNOW ABOUT RISK IS NOT FROM WOMEN

1 LIKE YOU. WE WILL DO ALL THE THINGS WE CAN DO TO
2 MINIMIZE RISK, AND WE THINK THAT IT SHOULD MINIMIZE
3 RISK FOR YOU ALTHOUGH IT'S NEVER BEEN TRIED IN PEOPLE
4 LIKE YOU. THAT STRIKES ME AS A VERY COMPLEX DISCUSSION
5 TO HAVE, BUT IT WOULD BE VERY IMPORTANT FOR THE REASONS
6 YOU SAID AND THE REASONS KEN OLDEN SAID.

7 MS. KING: THANK YOU, BERNIE. AS ALWAYS, YOU
8 DO ME BETTER THAN I DO MYSELF. AND WE WORKED TOGETHER
9 FOR A LONG TIME. THAT IS EXACTLY THE DILEMMA THAT I
10 SEE, BUT I THINK THAT THE REASONS FOR THE POOL BEING
11 REPRESENTATIVE ARE REALLY CRITICAL. AND SO THAT MEANS
12 THAT WE CAN'T SORT OF CAPTURE BEST PRACTICES. WHAT WE
13 REALLY NEED TO DO IS TO THINK THROUGH THE IMPLICATIONS
14 OF WHAT ARE EXISTING PRACTICES, IF YOU FOLLOW YOUR
15 ROUTE, AND HOW WE MIGHT NEED TO THINK HARD IN SOME
16 AREAS TO HELP US DEAL WITH WHAT I SEE AS A REALLY TOUGH
17 COMPLEX PROBLEM.

18 A SEPARATE ISSUE IS HOW YOU GET BETTER DATA,
19 BUT I'LL PUT THAT TO ONE SIDE. THAT'S WHY I WAS
20 SITTING HERE LOOKING PUZZLED.

21 DR. TAYLOR: I GUESS JUST A COUPLE OF
22 COMMENTS. I COMPLETELY AGREE WITH WHAT PAT SAYS. AND
23 HER FINAL QUESTION, HOW DO WE GET BETTER DATA, IS
24 REALLY A CRITICAL ONE. AND I THINK THIS IS THE ONE
25 THAT KEN IS RAISING TOO. SCIENTIFICALLY IT CERTAINLY

1 HAS BEEN MY HABIT TO WANT TO HAVE AS MUCH INFORMATION
2 AS YOU CAN HAVE BEFORE GOING FORWARD, BUT WE DO
3 PROBABLY HAVE A BIT OF A PRAGMATIC ISSUE HERE WHERE
4 SCNT PROTOCOLS WILL BE COMING THROUGH. THERE ARE GOING
5 TO BE PROTOCOLS CERTAINLY ADDRESSING SOME OF THE ISSUES
6 ABOUT SAFETY COMING FROM DIFFERENT INSTITUTIONS. THEY
7 MAY BE KIND OF INFORMATIVE IN THE WAY THEY'VE KIND OF
8 CONSTRUCTED THE LITTLE BITS OF DATA THAT ARE OUT THERE,
9 AND IT COULD BE INTERESTING TO US.

10 BUT THE THING THAT I FEAR IS THAT WE REALLY
11 HAVE VERY, VERY LIMITED ACCESS TO GOOD INFORMATION, AND
12 I DON'T FORESEE THAT IT'S GOING TO BE DRAMATICALLY
13 ENHANCED OVER THE NEXT COUPLE OF YEARS JUST BECAUSE OF
14 THE PRIVACY ISSUES AROUND DONATION CANDIDATES AND
15 REALLY THE FRAGMENTED WAY THAT WE ACTUALLY KIND OF
16 RECORD THESE DATA, PARTICULARLY IN THIS COUNTRY, IF WE
17 RECORD IT AT ALL. SO IT'S A LITTLE BIT OF A BALANCING
18 ACT, I THINK.

19 IT WOULD BE NICE TO COME UP WITH SOME BEST
20 PRACTICES BASED ON THE PRAGMATISM OF THE MOST
21 EXPERIENCED PEOPLE, MAYBE UNDERSTANDING LIMITATIONS
22 THAT IT'S QUITE NONREPRESENTATIVE BECAUSE TYPICALLY THE
23 COUPLES SEEKING DONOR OOCYTES ARE OF A PARTICULAR
24 SOCIOECONOMIC, ETHNIC SORT OF SLICE OF THE POPULATION,
25 AND THEY'RE LOOKING FOR DONORS THAT SORT OF MATCH THOSE

1 CHARACTERISTICS. AND I DO ANTICIPATE THAT THERE ARE
2 GOING TO BE SIGNIFICANT DIFFERENCES. I THINK GENETIC
3 DIFFERENCES IN PRETERM LABOR, FOR EXAMPLE. WE KNOW
4 THAT THERE ARE TNF ALPHA PROMOTER POLYMORPHISMS THAT
5 PROBABLY PREDISPOSE AFRICAN AMERICAN WOMEN TO PRETERM
6 LABOR MORE THAN CAUCASIAN WOMEN. THOSE
7 PRO-INFLAMMATORY SORT OF GENE SORT OF GENETIC
8 POLYMORPHISMS MIGHT WELL PREDISPOSE TO MORE
9 INFLAMMATION AND A GREATER RISK FOR OOCYTE RETRIEVAL AS
10 WELL.

11 SO I THINK THAT DR. GUIDICE DID A NICE JOB
12 PRESENTING THE RISK OF INFECTION AND INFLAMMATION, AT
13 LEAST THAT WE PICK UP CLINICALLY, SEEMS TO BE REALLY
14 QUITE LOW IN THIS POPULATION IN SORT OF THE
15 PREDOMINANTLY WHITE POPULATION THAT'S BEEN STUDIED. WE
16 HONESTLY DON'T KNOW WHAT THAT'S GOING TO TRANSLATE TO.
17 I THINK ONE COULD ANTICIPATE SOME CHANGES, BUT WE MAY
18 NOT BE ABLE TO WAIT FOR THE DATA TO KIND OF COME IN AND
19 BE COMFORTABLE WITH IT AND ADDRESS SOME OF THE
20 QUESTIONS THAT JEFF HAS RAISED ABOUT THE PROTOCOLS AS
21 THEY SORT OF FLIP FORWARD. IT IS A PUZZLING SITUATION.
22 YOU'RE RIGHT TO BE PUZZLED.

23 DR. ROWLEY: I JUST WANTED TO FOLLOW ON WITH
24 WHAT YOU'VE SAID AND ASK YOU A COUPLE OF QUESTIONS,
25 WHICH YOU'VE PARTLY ANSWERED. AND THEY HAVE TO DO WITH

1 WHAT YOU EXPECT, BASED ON YOUR EXPERIENCE, TO BE
2 DIFFERENCES IN, SAY, CAUCASIANS VERSUS AFRICAN
3 AMERICANS VERSUS HISPANICS IN THE AREA THAT WE'RE
4 CONCERNED ABOUT RIGHT HERE.

5 DR. TAYLOR: I'LL ADMIT THAT THAT EXAMPLE
6 MIGHT BE A BIT OF A STRETCH. I'M JUST KIND OF TRYING
7 TO UNDERSTAND AT LEAST SOME OF THE COMPLEXITIES OF
8 THINGS THAT I KNOW ABOUT IN A KIND OF BROADER
9 REPRODUCTIVE MEDICINE SCOPE.

10 I DO THINK THAT IF WE GOT TOGETHER EXPERTS
11 WITH THE MOST EXPERIENCE IN THE DONOR CYCLE SETTING
12 WHERE THEY REALLY ARE NOT -- SO THERE'S SOME
13 DIFFERENCES THERE CLEARLY. IT TENDS TO BE A YOUNGER
14 POPULATION, WOMEN WHO HAVE FAIRLY SENSITIVE OVARIAN
15 RESPONSES, SO THEY GENERALLY REQUIRE LESS MEDICATION.

16 DR. ROWLEY: NOW, YOU TALKING ABOUT ONE GROUP
17 ETHNICALLY COMPARED WITH ANOTHER?

18 DR. TAYLOR: I'M JUST REALLY SORT OF TALKING
19 ABOUT THE EXPERIENCE THAT WE HAVE. NO. IF WE THINK
20 ABOUT -- AND, AGAIN, SO WE MAY WANT -- I GUESS IF WE
21 WANTED TO IDENTIFY A REALLY LOW RISK GROUP FOR OVARIAN
22 HYPERSTIMULATION SYNDROME, WHICH IS GOING TO BE THE
23 MOST SIGNIFICANT AND COMMON COMPLICATION THAT WE COULD
24 POSSIBLY DEAL WITH? BASED ON THE EXPERIENCE THAT WE
25 HAVE WITH OUR DONORS FOR REPRODUCTIVE PURPOSES, I THINK

1 THAT IT WOULD BE FEASIBLE TO COME UP WITH BEST
2 PRACTICES THAT PERTAIN TO THAT PARTICULAR POPULATION,
3 AND THEN TO TRY TO NOODLE OUT SOME OF THE THINGS, BUT
4 IT WOULD BE MORE OF A SUPRATENTORIAL TYPE OF PROCESS
5 RATHER THAN ONE THAT WOULD BE BASED ON DATA, I'M
6 AFRAID.

7 CHAIRMAN LO: I'VE HEARD THREE DIFFERENT
8 ISSUES THAT SEEM TO ME QUITE IMPORTANT. ONE IS THE
9 POINT THAT A NUMBER HAVE RAISED. I THINK KEN OLDEN
10 RAISED IT FIRST. WE NEED MORE DATA, BETTER DATA ON
11 RISKS TO OOCYTE DONORS. SECOND IS JEFF SHEEHY'S
12 CONCERN THAT THERE WILL BE PROTOCOLS BEING SUBMITTED TO
13 CIRM THAT MAY SCIENTIFICALLY HAVE SCORES THAT ARE
14 FUNDABLE, BUT WHERE THE SCRUTINY TO THE ETHICS OF
15 OOCYTE DONATION MAY NOT BE AS CAREFULLY BUILT INTO THE
16 CURRENT CIRM REVIEW SYSTEM WHERE WE'RE SORT OF
17 DEFERRING TO SOME EXTENT TO SCRO'S. THIRD QUESTION IS
18 THE ONE I HAD RAISED ABOUT, EVEN KEEPING IN MIND ALL
19 THE LIMITATIONS OF THE DATA THAT A NUMBER OF US HAVE
20 COMMENTED ON, WOULD THERE BE MERIT IN CALLING FOR
21 EXPERT CONSULTANTS TO SORT OF SUGGEST BEST PRACTICE
22 GUIDELINES.

23 SO THERE'S THREE VERY DIFFERENT SORT OF PARTS
24 OF THIS CONCERN WE ALL HAVE OF SORT OF TRYING TO
25 PROTECT WOMEN WHO DONATE OOCYTES FOR RESEARCH.

1 DR. PETERS: I'M THINKING, BERNIE, EARLIER
2 YOU HAD SAID MAYBE OUR GRANTEEES OUGHT TO KNOW WE HAD
3 THOUGHT ABOUT THIS. WELL, WE'VE ACTUALLY BEGUN TO
4 THINK ABOUT IT TODAY. AND LINDA'S REPORT GAVE US
5 CERTAINLY A POINT OF DEPARTURE. SO I WONDER IF WE'VE
6 GOT TWO OVERLAPPING ISSUES. ONE IS, YES, RESEARCHERS
7 PROCURING FRESH EGGS OUGHT TO, ON THE BASIS OF WHATEVER
8 THEIR CRITERIA ARE, TO MINIMIZE RISK IN THAT PROCESS.
9 AND IT WOULD BE NICE IF WE COULD PROVIDE SOME STANDARDS
10 FOR MINIMIZATION OF RISK. WE'RE PROBABLY NOT READY TO
11 GIVE A COMPREHENSIVE SET OF STANDARDS, BUT WE PROBABLY
12 COULD DO SOME.

13 THEN OVER A LONGER HAUL, THE SECOND RELATED
14 ISSUE IS HOW DO SOCIAL AND ECONOMIC AND DIETARY AND
15 RACIAL FACTORS REFINE WHAT THESE RISKS COULD BE. WE'VE
16 ALREADY HAD SOME EXPERIENCE WITH SOME INTERIM
17 GUIDELINES, AND WOULD IT BE OUT OF ORDER TO PERHAPS
18 PROCEED WITH WHAT YOU AND GEOFF HAVE BEEN -- GEOFF
19 LOMAX HAVE BEEN SUGGESTING, TO ENGAGE IN OBTAINING BEST
20 PRACTICE INFORMATION, PROVIDE SOME KIND OF INTERIM
21 GUIDELINES WHICH WOULD MAKE ONE POINT. IT'S UP TO YOU
22 AS A RESEARCHER, IF YOU GOT CIRM MONEY, TO MINIMIZE THE
23 RISKS FOR THESE PEOPLE. AND THEN HAVE THAT STAND FOR A
24 PERIOD OF TIME WHILE WE REFINE WHAT THAT WOULD LOOK
25 LIKE. THAT WOULD MEET, I THINK, SOME OF JEFF SHEEHY'S

1 CONCERNS HERE ABOUT INCOMING APPLICATIONS.

2 CHAIRMAN LO: AGAIN, THERE'S SORT OF
3 REGULATORY ISSUES HERE. AND I THINK THAT YOU USE THE
4 TERM "GUIDELINES," TED, WHICH I THINK IS THE RIGHT TERM
5 WE SHOULD BE THINKING IN. THESE ARE NOT REGULATIONS.
6 I THINK WE'RE -- THESE ARE THINGS WE REALLY WANT PEOPLE
7 TO THINK ABOUT; AND IF THEY DISAGREE, THEY MIGHT WELL
8 HAVE GOOD REASONS, BUT THEY NEED TO HAVE THOUGHT IT
9 THROUGH AND BE READY TO EXPLAIN WHY THEY THINK IN THEIR
10 CASE THE GUIDELINES DON'T NECESSARILY APPLY. SO THEY
11 WOULD BE MORE FLEXIBLE THAN REGULATIONS, BUT THEY WOULD
12 HAVE A LOT OF SORT OF AUTHORITY.

13 I THINK, AS TED POINTS OUT, PROBABLY ONE OF
14 THE IMPORTANT THINGS MAY BE TO SAY, LOOK. WE REALLY
15 THINK THIS IS IMPORTANT, AND YOU HAVE AN ETHICAL DUTY
16 TO MINIMIZE RISKS, AS YOU DO IN ALL HUMAN PARTICIPANTS
17 RESEARCH, BUT HERE IN PARTICULAR IT'S ESPECIALLY
18 IMPORTANT AND IT'S ESPECIALLY COMPLICATED.

19 AND SO, YOU KNOW, I GUESS TO GO BACK TO
20 JEFF'S POINT, THE HOPE MIGHT BE THAT BEFORE SUBMITTING
21 A GRANT, THE RESEARCHER WHO WANTS TO TRY TO DERIVE AN
22 SCNT LINE WILL HAVE READ THROUGH, APPLIED, THOUGHT
23 ABOUT, AND INCORPORATED GUIDELINES THAT AN EXPERT PANEL
24 MIGHT PRODUCE. THAT STILL STRIKES ME THIS OTHER PIECE
25 OF GETTING MORE DATA FOR THE FUTURE AND DOING IT IN A

1 WAY THAT'S EFFICIENT.

2 MS. KING: I WAS GOING TO SAY I DON'T THINK
3 ANYBODY IS GOING TO BE AGAINST GUIDELINES, BUT THERE
4 SEEMS -- I DON'T, SO THE QUESTION IS CAN WE TAKE CARE
5 OF OR TRY TO GET TO SOME OF THE OTHER ISSUES.

6 MY VIEW ABOUT GUIDELINES AND USING AN EXPERT
7 PANEL TO HELP YOU DO THAT IS THAT WE SHOULD HAVE AN EYE
8 TOWARDS WHO WE SELECT FOR THE EXPERT PANEL, NOT JUST
9 EXPERTISE, BUT PEOPLE WHO WORK IN CERTAIN KINDS OF
10 AREAS. IT IS NOT THE CASE THAT AFRICAN AMERICANS AND
11 OTHER ETHNIC GROUPS DO NOT USE REPRODUCTIVE
12 TECHNOLOGIES. THEY DO. THEY TEND TO BE HIGH INCOME
13 TOO. AND THE QUESTION IS IS THERE ANY WAY THAT WE CAN
14 CATCH, NOT THE CAREFULLY CONDUCTED STUDIES, BUT WHETHER
15 WE CAN AT LEAST GET SOME OF THE EXPERIENCE WHERE IT IS
16 AVAILABLE. SO WE COULD -- I WOULD THINK THAT WOULD BE
17 CRITICAL ALONG WITH THE EXPERTISE THAT YOU NEED. I
18 DON'T THINK YOU SHOULD HAVE ANY TROUBLE DOING IT AS
19 LONG AS WE THINK ABOUT IT IN ADVANCE AND SELECT FROM
20 CERTAIN PARTS OF THE COUNTRY AND CERTAIN REGIONS OF THE
21 COUNTRY, NOT JUST FOR AFRICAN AMERICANS HERE, BUT FOR
22 ALL THE RACIAL AND ETHNIC MINORITIES. THERE ARE
23 CERTAIN PLACES WHERE YOU CAN GO WHERE YOU WILL FIND A
24 GREATER IMPACT FROM CERTAIN GROUPS.

25 JEFF'S ISSUE IS MORE INTERESTING BECAUSE I'VE

1 ALWAYS THOUGHT THAT YOU LEARN A GREAT DEAL WHEN YOU SEE
2 AN ACTUAL APPLICATION IN AN AREA THAT'S TROUBLING TO
3 YOU. SO I DON'T KNOW HOW THIS WORKS IN CALIFORNIA, OR
4 HOW IT COULD WORK OR WHETHER IT'S JUST FOR OUR
5 EDUCATION AND NOT FOR REVIEW AND TELLING PEOPLE WHAT TO
6 DO, BUT WE SHOULDN'T LOSE THE THOUGHT THAT SEEING SOME
7 OF THE EARLY APPLICATIONS ABOUT SCNT AND THESE ISSUES
8 OF WHAT THE RESEARCHERS HAVE PROPOSED TO DO COULD BE
9 INSTRUCTIVE. I'M TRYING TO CHOOSE MY WORDS CAREFULLY.
10 I'M NOT SUGGESTING WE PASS ON THEM, TURN THEM DOWN.
11 I'M NOT SURE THAT'S APPROPRIATE EVEN, BUT THEY
12 CERTAINLY WOULD BE INSTRUCTIVE BECAUSE YOU WOULD GET A
13 REAL SENSE OF HOW PEOPLE ON THE GROUND ARE WORKING AND
14 WHAT THEY'RE THINKING AND WHAT THEY SEE AS ISSUES. AND
15 SO I DON'T WANT TO LOSE JEFF'S THOUGHT. I JUST DON'T
16 KNOW HOW TO IMPLEMENT IT.

17 I CERTAINLY THINK SOMETHING CAN BE GAINED IN
18 THIS EARLY PERIOD IF YOU JUST TAKE A LOOK AT THE FIRST
19 TEN, 15 THAT COME THROUGH OVER THE NEXT YEAR AND A
20 HALF. THERE'S A CERTAIN KIND OF KNOWLEDGE THAT YOU CAN
21 JUST GET FROM THAT AND A CERTAIN UNIFORMITY OF APPROACH
22 THAT'S DESIRABLE THAT MIGHT COME OUT OF THAT. A MUCH
23 MORE UNIFORM TAKE WOULD BE POSSIBLE.

24 DR. LOMAX: COULD I OFFER, BERNIE, JUST TWO
25 POINTS TO INJECT IN THE DELIBERATION? ONE WAS JUST THE

1 GENESIS OF THE GUIDELINES CONCEPT WAS BASED ON A
2 LIMITED, BUT SOME DISCUSSION SURVEYING AROUND TO
3 INSTITUTIONS. AND THE AUDIENCE THAT THIS SEEMED MOST
4 USEFUL FOR WAS GIVING IRB'S -- I THINK THE TERM
5 "BENCHMARKS" CAME INTO THE DISCUSSION -- THAT IRB'S ARE
6 FEELING A LITTLE BIT IN AN AREA, OR AT LEAST IN THE
7 INSTITUTIONS REPRESENTED, IN THE THREE OR FOUR
8 INSTITUTIONS, THAT THESE WILL BE USEFUL BENCHMARKS. I
9 JUST INSERT THAT JUST TO SORT OF SAY, JUST TO AMPLIFY
10 AN AUDIENCE AND WHERE THAT CAME FROM.

11 THE OTHER POINT ON NEW DATA, AND THIS WAS, I
12 THINK, REALLY CERTAINLY WHAT DR. HALL ENVISIONED, AND I
13 HESITATE TO SPEAK FOR HIM, BUT IT'S SORT OF IN THIS
14 UNUSUAL AREA WHERE IT'S KIND OF THE ORGANIZATIONAL
15 DILEMMA OF BUDGET BUREAUCRACIES. BUT WITHIN THE
16 STRATEGIC PLAN THERE IS A SOCIETAL ISSUES PROGRAM THAT
17 IS REALLY THERE'S A COMMITMENT OF FUNDING THERE, I
18 THINK. AND MY UNDERSTANDING WITH DR. HALL WAS THAT HE
19 SORT OF SAW THAT AS THE OPPORTUNITY FOR THE NEW DATA
20 GENERATION AND THE NEW RESEARCH. AND SO IT'S A BIT OF
21 A DILEMMA; THEREFORE, WE DON'T APPROACH IT
22 HOLISTICALLY. WE'RE SORT OF APPROACHING IT FROM A
23 DIFFERENT PIECE OF OUR BUDGET AND HOW WE FUND THINGS
24 AND HOW WE GO ABOUT DOING THINGS.

25 BUT CERTAINLY I JUST WANT TO POINT OUT THAT I

1 THINK THE VISION FOR THE DATA GENERATION IS THERE, AND
2 IT'S REFLECTED IN THE STRATEGIC PLAN, BUT I THINK WHAT
3 I SENSE FROM THE COMMENTS HERE IS IT LACKS A LITTLE BIT
4 OF THAT HOLISTIC QUALITY THAT IS EMERGING IN THIS
5 CONVERSATION, JUST TO POINT THAT THAT PIECE OF THE
6 STRATEGIC PLAN IS INTEGRAL TO CIRM MOVING FORWARD.

7 CHAIRMAN LO: GEOFF, CAN I ASK YOU. THE
8 STRATEGIC PLAN ALSO HAS A TIMELINE. IS THERE A SENSE
9 OF WHEN IN THE LIFE OF CIRM THIS KIND OF RESEARCH MIGHT
10 BE PRIORITIZED BECAUSE WE'VE DONE TRAINING GRANTS,
11 WE'RE GOING THROUGH A CYCLE OF SEED GRANTS?

12 DR. LOMAX: I THINK THAT'S A QUESTION I'D
13 HAVE TO BRING BACK TO THE FOLKS. OR PERHAPS JEFF, HE'S
14 HAD MORE EXPERIENCE.

15 MR. SHEEHY: I THINK IT'S DOWN THE ROAD. AND
16 I JUST -- I GET MORE AND MORE OF A SENSE THAT THE REAL
17 URGENCY FOR SCNT AND EGG DONATIONS IS AT THE FRONT END,
18 AND THAT'S MORE RETROSPECTIVE. AND, YOU KNOW, THERE'S
19 A LOT MORE FLEXIBILITY IN WHAT WE CAN DO WITHIN THE
20 CONSTRUCT OF THIS COMMITTEE. IT'S REALLY UP TO US. WE
21 HAVE A FAIRLY BROAD MANDATE, BUT WE ALSO HAVE A FAIRLY
22 BROAD RESPONSIBILITY.

23 AND JUST TO TALK TO DR. KING'S POINT, HAVING
24 SAT IN THROUGH A NUMBER OF GRANTS WORKING GROUP
25 SESSIONS, THERE IS KIND OF A COLLECTIVE KNOWLEDGE BASE

1 THAT GETS CREATED HAVING REVIEWED SEVERAL APPLICATIONS
2 THAT GIVES YOU A TEXTURE AND A SENSE OF WHAT'S GOING ON
3 AND A SENSIBILITY. THIS IS NOVEL FOR EVERYBODY, I
4 THINK. I THINK IT'S NOVEL FOR THE INSTITUTIONS. I
5 THINK IT'S NOVEL FOR THE RESEARCHERS. IT'S NOVEL FOR
6 US. AND WE CAN AFFORD TO BE CREATIVE IF THAT'S OUR
7 DESIRE.

8 AND I WOULD NOTE THAT THERE ALWAYS SEEMS TO
9 BE A PRESUMPTION THAT WE'RE ALWAYS GOING TO BE TALKING
10 ABOUT STANFORD, UCSF, AND UCLA, JUST TO THROW OUT, YOU
11 KNOW, PRISTINE INSTITUTIONS WITH PRISTINE REPUTATIONS
12 THAT WILL ALWAYS DO THE RIGHT THING IF GIVEN --
13 PRESUMABLY. WELL, THE PRESUMPTION. BUT WE'RE
14 PRESUMING THAT WE'RE ALWAYS GOING TO BE DEALING WITH
15 GOOD ACTORS, AND THERE'S A MAJOR IMPETUS IN, YOU KNOW,
16 FOR A WHOLE HOST OF REASONS, NOT THE LEAST OF WHICH
17 THAT THEY MAKE THERAPIES TO INVOLVE THE PRIVATE SECTOR.
18 AND HOW DO WE START TO REALLY GET A GRIP ON ALL OF
19 THIS?

20 YOU KNOW, THIS FRONT-END PORTION, WHICH IS
21 THE SLIPPERIEST AND THE MOST DIFFICULT TO GET THE
22 HANDLE ON, IS ALSO PROBABLY THE MOST CRITICAL. WE
23 SUFFER FROM A SURFEIT OF INFORMATION AND DATA, BUT, YOU
24 KNOW, WE CAN ACTUALLY GIVE SOME FAIRLY CLEAR DIRECTION.
25 FOR INSTANCE, THERE IS A POT OF MONEY THAT'S

1 UNALLOCATED SO FAR FROM OUR VARIOUS GRANT ROUNDS. WE
2 HAVEN'T COMPLETELY SPENT EVERY DIME, UNLESS LORI
3 HOFFMAN HAS LEFT, BUT I THINK -- WE COULD DIRECT FROM
4 THIS MEETING AS PART OF THE REPORT THAT GOES TO THE
5 ICOC THAT SOME OF THE DATA COLLECTION EFFORTS, YOU
6 KNOW, BE PUSHED FORWARD AND THAT THIS TAKE PLACE NOW.
7 AND IF WE MAKE SOME OF THE APPROVAL FOR -- IF WE CAN
8 TIE THAT TO FUNDING SCNT GRANTS, WHICH IS A PRIMARY
9 SCIENTIFIC EFFORT, YOU KNOW, THESE ARE NOT UNRELATED,
10 SEPARATE, DISCRETE ENTITIES. THESE ARE ALL RELATED,
11 AND THEY CAN HAPPEN AT THE SAME TIME.

12 ONE OF OUR BIGGEST BURDENS IS THAT OUR STAFF
13 HAS BEEN SMALL BECAUSE OUR STAFF IS FUNDED THROUGH A
14 PERCENTAGE OF THE GRANTS THAT WE GIVE OUT. BUT AS WE
15 START TO GIVE OUT MORE GRANTS, AND WE WILL HAVE A NEW
16 PRESIDENT, BY THE WAY, IN JUNE, I FEEL CERTAIN, HAVING
17 SEEN THE SHORT LIST OF THE PEOPLE THAT WE PLAN TO
18 INTERVIEW, THAT THERE IS CERTAINLY TALENT THERE. SO I
19 THINK THAT THIS WILL ALL GO, BUT WE NEED TO FIGURE OUT
20 OUR ROLE IN THIS GREATER PIECE AND HOW MUCH OF A ROLE
21 WE WANT TO PLAY, I GUESS, JUST TO PUT THAT OUT THERE.
22 BUT THE RESOURCES, I THINK, ARE AVAILABLE.

23 CHAIRMAN LO: SO LET ME AGAIN -- I THINK THIS
24 HAS BEEN VERY USEFUL. LET ME TRY AND SEE IF I'VE HEARD
25 RIGHT WHAT PEOPLE ARE SAYING. IT SOUNDS LIKE THAT I'VE

1 NOT HEARD ANYONE SAY THIS NOTION OF CONVENING A GROUP
2 OF EXPERTS TO MAKE RECOMMENDATIONS FOR BEST PRACTICE
3 GUIDELINES IS A BAD IDEA. THERE HAVE BEEN SOME HELPFUL
4 SUGGESTIONS THAT THE MEMBERS OF THAT PANEL HAVE
5 EXPERIENCE WITH AND INTEREST IN THE PARTICULAR WAYS IN
6 WHICH WOMEN WHO ARE NOT WELL REPRESENTED IN THE DATA WE
7 NOW HAVE MIGHT BE AT DIFFERENT KINDS OF RISK AND TO
8 DRAW ON CLINIC EXPERIENCE IN THE ABSENCE OF DATA.

9 BUT I'VE ALSO HEARD THAT THAT'S SORT OF GOOD,
10 BUT NOT THE WHOLE PICTURE, AND THERE ARE TWO OTHER
11 IMPORTANT PARTS I'VE HEARD. ONE IS THAT WE NEED TO
12 KIND OF TRY AND GET BETTER DATA, MORE POPULATION SORT
13 OF REPRESENTATIVE DATA ON THE RISK TO OOCYTE DONORS.
14 OUR MANDATE WOULD BE FOR RESEARCH. WE CAN'T DO ALL OF
15 IVF.

16 THEN ALSO JEFF SHEEHY'S POINT THAT AS GRANTS
17 ARE BEING SUBMITTED TO CIRM, WHAT ROLE MIGHT THIS GROUP
18 PLAY IN THAT PROCESS? I'VE HEARD SEVERAL VERY
19 DIFFERENT SORT OF SUGGESTIONS. ONE, WHICH I WILL
20 ASCRIBE TO JEFF, IS THAT THIS MAY ACTUALLY BE OF USE IN
21 THE REVIEW PROCESS AND HELP CIRM AS AN ORGANIZATION
22 SORT OF AVOID FUNDING RESEARCH THAT'S SCIENTIFICALLY
23 VERY STRONG, BUT ETHICALLY LESS STRONG. I MAY HAVE
24 EXAGGERATED.

25 MR. SHEEHY: I THINK IT'S MORE DYNAMIC THAN

1 THAT. I THINK IT'S LESS ABOUT THUMBS UP, THUMBS DOWN.
2 IT'S MORE LIKE IF YOU DO XYZ --

3 CHAIRMAN LO: YOU COULD BE BETTER.

4 MR. SHEEHY: THIS WOULD BE APPROPRIATE AS
5 OPPOSED TO THE WAY THAT YOU'RE PLANNING, EITHER FROM
6 EXPERIENCE OR FROM AN ETHICAL VIEWPOINT, WE FIND IT
7 TROUBLING.

8 CHAIRMAN LO: SO IT'S MORE OF A QUALITY
9 IMPROVEMENT CONSULTANT.

10 MR. SHEEHY: IN THE SAME WAY THAT THE
11 SCIENTISTS CAN LOOK AT A STUDY AND SAY, YOU KNOW, IF
12 YOU JUST HAD SUBMITTED IT AS X, THIS WOULD BE A GREAT
13 STUDY, BUT THEY SUBMITTED Y. AND THEY'RE FIGHTING IN
14 THE GRANTS WORKING GROUP ACTUALLY TO GET INTO A MORE
15 DYNAMIC SITUATION WHERE IT'S NOT THUMBS UP, THUMBS DOWN
16 TYPICAL OF NIH, BUT MORE LIKE GETTING FEEDBACK AND THEN
17 GETTING IMPROVEMENT. AND I THINK, GIVEN THE TIMELINES
18 THAT WE'RE TRYING TO WORK ON, FROM AN ADVOCATE POINT OF
19 VIEW WHERE WE'RE TRYING TO MOVE AS QUICKLY AS POSSIBLE,
20 THE MORE DYNAMIC WE CAN BE IN INFORMATION SHARING, THE
21 BETTER PRODUCT WE'LL HAVE AND THE FASTER WE'LL GET
22 SOMETHING.

23 CHAIRMAN LO: SO THAT'S VERY HELPFUL, THAT
24 CLARIFICATION. IT'S REALLY BEING INVOLVED IN THE
25 GRANTS REVIEW PROCESS WITH A VIEW OF HELPING TO

1 STRENGTHEN THE GRANTS THAT ARE FUNDED.

2 MR. SHEEHY: POTENTIALLY FOR SCNT UNLESS
3 THERE'S A SENSE THAT THERE'S A LOT OF THE COMFORT LEVEL
4 ON DONOR PROGRAMS WITHIN THIS GROUP THAT --

5 CHAIRMAN LO: LET ME SAY TO MAKE SURE I'VE
6 SUMMED IT UP. I'VE HEARD PAT, I THINK, SAY SOMETHING A
7 LITTLE DIFFERENT WITH WHY IT'D BE USEFUL FOR US TO
8 REVIEW PROTOCOLS, WHICH IS REALLY TO HELP US SORT OF
9 CLARIFY OUR OWN THINKING ABOUT WHAT SOME OF THE
10 PROBLEMS ARE SORT OF ON THE GROUND IN REAL LIFE, WHICH
11 MAY SIGNAL MAYBE MORE SORT OF A LONGER TERM BENEFIT,
12 THAT IT HELPS US KEEP AHEAD OF THE SITUATION. AND EVEN
13 THOUGH IT MAY NOT FEED BACK TO THAT SPECIFIC PROJECT OR
14 CYCLE, IT WILL HELP IN THE LONG RUN.

15 MS. KING: IT'S NOT ANTAGONISTIC TO WHAT JEFF
16 JUST SAID. IT MEANS THAT SUCH A PROCESS COULD HAVE
17 SEVERAL OBJECTIVES, ALL OF WHICH WE MIGHT THINK WOULD
18 STRENGTHEN THE OVERALL PROGRAM AND WHAT WE'RE TRYING TO
19 DO.

20 CHAIRMAN LO: NOW, I DON'T KNOW -- SO LET ME
21 JUST TRY AND DEAL WITH EACH OF THESE BECAUSE THEY ARE,
22 I THINK, AT DIFFERENT LEVELS OF DEVELOPMENT. FOR THE
23 BEST PRACTICE GUIDELINES, THIS IS SOMETHING THAT I
24 TALKED A LOT TO ZACH HALL ABOUT BEFORE HE LEFT, TRYING
25 TO THINK OF HOW TO DO THAT. AND, AGAIN, WE WERE

1 THINKING VERY MODESTLY, I THINK, OF TRYING TO JUST
2 BRING TOGETHER THE BEST CLINICAL EXPERIENCE AND WISDOM
3 AND SORT OF MAKE IT MORE COHERENT AND CONSISTENT. AND
4 CONVENING A RELATIVELY SMALL GROUP OF ART EXPERTS, I
5 WOULD ADD OF THE VERY IMPORTANT SUGGESTION PAT MADE,
6 THAT WE INCLUDE PEOPLE WITH A LOT OF EXPERIENCE DEALING
7 WITH DONORS WHO WEREN'T WELL-TO-DO WHITE WOMEN. AND WE
8 THOUGHT THAT THOSE SHOULD BE FROM OUT OF STATE.

9 WE ACTUALLY HAVE GONE A STEP FURTHER AND
10 LOOKED AROUND AND SAID WHO COULD BE ON THE COMMITTEE,
11 AND ONE NAME THAT CAME UP WAS RALPH CHANDLER, WHO IS ON
12 THIS COMMITTEE, BUT BEING NOW FROM ATLANTA IS NOT
13 ELIGIBLE TO APPLY FOR CIRM GRANTS. SO IT KIND OF
14 RELIEVES ANY CONCERNS THAT SOMEHOW SOMEONE IN
15 CALIFORNIA GETS ON THE COMMITTEE AND THEN THEIR GROUP
16 IS THE ONE THAT CIRM IS GOING TO FEED ALL THE
17 DERIVATIONS TO AND HAVE STARTED TO THINK OF WHAT OTHER
18 PEOPLE MIGHT WANT TO SERVE ON THE COMMITTEE. AND WE
19 WERE TRYING TO THINK OF PEOPLE WHO ARE EXPERIENCED IN
20 THE ART WHO HAD BOTH CLINICAL AND SORT OF POLICY
21 EXPERIENCE, SO PEOPLE WHO HAVE HELD LEADERSHIP
22 POSITIONS IN THEIR OWN CLINICAL ORGANIZATION OR PERHAPS
23 PROFESSIONAL SOCIETIES, AND CLEARLY WANTING TO HAVE A
24 REPRESENTATIVE COMMITTEE. SO HAVING A WOMAN AS
25 CO-CHAIR, I THINK HAVING PEOPLE WHO ARE EITHER

1 THEMSELVES FROM PERSONS OF COLOR OR HAVE A LOT OF
2 PATIENTS WHO ARE OOCYTE DONORS IN THAT GROUP WOULD
3 REALLY MAKE SURE WE'RE NOT JUST SORT OF TALKING ABOUT
4 CERTAIN PEOPLE.

5 SO THAT I THINK WE'VE THOUGHT SOME ABOUT IT,
6 AND WE'RE NOW SORT OF TRYING TO THINK OF HOW TO
7 ACTUALLY DO IT WITHIN CIRM. I TAKE IT BECAUSE OF THE
8 BUDGET LIMITATIONS AND THINGS, THERE ARE QUESTIONS OF
9 HOW TO ACTUALLY CONSTITUTE THAT. SO I THINK I'D LIKE
10 TO SORT OF GET SOME FEEDBACK.

11 THE OTHER TWO IDEAS, I THINK, ARE NEW AND WE
12 NEED TO THINK MORE ABOUT. THE SECOND BIG ISSUE WOULD
13 BE THE ONE YOU RAISED, JEFF. HOW CAN WE AS A WORKING
14 GROUP CONTRIBUTE TO CIRM AS A WHOLE AS THESE NEW
15 PROTOCOLS COME IN THAT DEAL WITH OOCYTE DONATION FOR
16 SCNT LINES? WHAT ROLE COULD WE PLAY THAT'S
17 CONSTRUCTIVE BOTH TO THE GRANTEES OR THE APPLICANTS TO
18 THE REVIEW PROCESS TO CIRM AS A WHOLE WITH THE ADDED
19 EXTRA THAT WE WOULD SORT OF JUST BECOME MORE
20 KNOWLEDGEABLE IN THAT SENSE? I'M A LOT LESS SURE OF
21 HOW TO DO THAT BECAUSE I MUST CONFESS I DON'T KNOW AS
22 MUCH ABOUT THE GRANTS REVIEW PROCESS AND HOW IT WORKS
23 AND HOW WE MIGHT FIT IN WITH THAT.

24 I THINK THE THIRD THING, WHICH GOES BACK TO
25 KEN OLDEN'S IDEA, TRYING TO MOVE TOWARDS GETTING MORE

1 EMPIRICAL DATA, I'M EVEN LESS CLEAR ABOUT HOW TO DO
2 THAT. I THINK JUST TO SAY CIRM YOU OUGHT TO DO THIS,
3 IF WE CAN TRY AND FLESH THAT OUT A BIT, BUT IT STRIKES
4 ME THAT WE'RE AT DIFFERENT STAGES OF THAT. WE MAY
5 ACTUALLY COME BACK TO THIS. WE'RE GOING TO HAVE A
6 BRIEF REPORT ON THE GRANTS PROCESS TOMORROW; IS THAT
7 RIGHT?

8 DR. LOMAX: WELL, THE REPORT TOMORROW IS
9 INTENDED TO BE SORT OF A SUMMARY OF HOW THE GRANTS
10 ADMINISTRATION IS EVOLVING. AND THAT'S, AGAIN, SORT OF
11 A CONTINUATION. WE HEARD ABOUT GRANTS ADMINISTRATION
12 POLICY, SO THAT'S SORT OF A TRADITIONAL ITEM THAT'S
13 BEEN BROUGHT TO THIS GROUP. I DON'T THINK WE'RE GOING
14 TO BE -- THIS TYPE OF ISSUE WASN'T ENVISIONED.

15 CHAIRMAN LO: WASN'T ENVISIONED. OKAY.

16 DR. TAYLOR: BERNIE, YOU'VE LAID THAT OUT
17 NICELY AS SORT OF THREE SORT OF OBJECTIVES. I ACTUALLY
18 THINK THAT THE FIRST TWO MIGHT BE MERGED IN A WAY IN
19 THAT IF YOU COULD PUT TOGETHER THE SECOND PART, SO YOUR
20 EXERT PANEL, WHICH I THINK IS ACTUALLY MATURING AS WE
21 KIND OF DISCUSSED IT, SO THAT THERE WOULD BE BOTH
22 REPRESENTATION OF POPULATIONS THAT MAY BE RELATIVELY
23 UNDER REPRESENTED. AND THE DATA THAT EXISTS CURRENTLY,
24 THERE'S ALSO, I THINK, AN IMPORTANT COMPONENT OF USING
25 PEOPLE FROM MANDATED STATES WHERE IVF PRACTICES ARE

1 MANDATED AND COVERED BY AN INSURANCE COMPANY WHICH SORT
2 OF GIVES A BROADER REPRESENTATION, AND MASSACHUSETTS IS
3 AN EXCELLENT EXAMPLE WHERE YOU HAVE KIND OF A MORE
4 DIVERSE POPULATION. THAT WOULD, I THINK, BE EXTREMELY
5 IMPORTANT.

6 BUT IF A CERTAIN NUMBER OF REPRESENTATIVE
7 PROTOCOLS THAT CAME FROM APPLICANTS COULD BE REVIEWED
8 BY A SUBCOMMITTEE AND FED INTO THAT EXPERT PANEL,
9 BECAUSE A LOT OF THESE PEOPLE, FRANKLY, I THINK THE
10 CLINICAL EXPERTS IN THIS AREA WOULDN'T HAVE THOUGHT A
11 LOT ABOUT THE ETHICAL AND SORT OF PRACTICAL ISSUES OF
12 OOCYTE DONATION FOR SCNT. I THINK IF YOU COULD FUNNEL
13 SOME OF THOSE PROTOCOLS TO THAT PANEL, IT WOULD BE A
14 PRETTY GOOD SUBSTRATE FOR THEM TO SORT OF CHEW ON AND
15 TO THINK A LITTLE BIT ABOUT HOW THEY WOULD WANT TO
16 CONSTRUCT THE TYPES OF RECOMMENDATIONS OR GUIDELINES
17 THAT THEY MIGHT COME UP WITH. SO I THINK THOSE TWO
18 COULD ALMOST BE OVERLAPPING.

19 THE THIRD PART, WHICH IS REALLY GETTING GOOD
20 DATA, THAT I THINK IS A MUCH BIGGER AND, FRANKLY, MORE
21 CHALLENGING ISSUE, AND I DON'T HAVE A BRILLIANT
22 SOLUTION FOR THAT ONE.

23 CHAIRMAN LO: ANN, HI. WELCOME. GLAD TO
24 HAVE YOU.

25 DR. KIESSLING: SORRY I'M LATE. ACTUALLY I'M

1 REALLY SORRY I'M LATE. WOULD IT BE -- WHAT I
2 UNDERSTAND THAT YOU'RE TRYING TO DO, AND I'M SORRY I'M
3 SO LATE, BUT WE'VE SORT OF SKIRTED AROUND THIS ISSUE
4 FOR QUITE A WHILE NOW ABOUT WHETHER WE WERE GOING TO
5 ACTUALLY DESIGN BEST PRACTICE, AND IT'S SORT OF COME
6 AND GONE. NOW IT SEEMS LIKE JEFF IS HOPING THAT WE'D
7 DO THAT, RIGHT? IS THAT WHERE YOU ARE? YOU'RE SORT OF
8 HOPING THAT EVEN IF IT'S HALF A DOZEN STEPS.

9 MR. SHEEHY: IT DIDN'T COME NECESSARILY FROM
10 ME, BUT HAVING -- WELL, YOU KNOW, HAVING SEEN AN SCNT
11 GRANT THAT REALLY TROUBLED ME AND NOT SEEING ANY REAL
12 MECHANISM TO GET A GRIP ON IT OTHER THAN RELYING ON A
13 PRIVATE IRB TO POLICE IT, AND LUCKILY FOR ME THE *L.A.*
14 *TIMES* HAS SUBMITTED THE GRANT TO A GREATER DEGREE OF
15 SCRUTINY. BUT THERE'S NOT A MECHANISM. JUST FEELING
16 LIKE THESE THINGS, KIND OF THEY'RE OUT AND THEN THEY'RE
17 GONE.

18 DR. KIESSLING: WOULD IT BE VALUABLE TO GET
19 SOME INPUT ACTUALLY FROM OTHER COUNTRIES? IF YOU'RE
20 INTERESTED IN A BROADER RANGE OF, FOR INSTANCE, ETHNIC
21 RESPONSE, OTHER COUNTRIES PRACTICE. AND SOME COUNTRIES
22 HAVE VERY RESTRICTED GUIDELINES FOR WHAT THEY CAN DO.
23 DENMARK, YOU HAVE TO MAINTAIN A VERY HIGH PREGNANCY
24 RATE WITH A VERY TINY AMOUNT OF HORMONE. I JUST WONDER
25 IF THAT WOULD BE OF SOME VALUE RATHER THAN JUST LOOKING

1 AT -- AND IF YOU HAD SOME SOUTH AMERICAN PROGRAMS LIKE
2 THE PROGRAMS IN CHILE WHERE THEY ARE VERY RESTRICTED IN
3 TERMS OF WHAT THEY CAN DO BECAUSE THEY HAVE TO TRANSFER
4 BACK EVERYTHING THEY FERTILIZE. I DON'T KNOW THAT YOU
5 WANT THIS TO BE A HUGE PANEL, BUT IT MIGHT BE GOOD TO
6 GET THE INPUT OF FOLKS WHO ARE DEALING WITH ANOTHER
7 STRAIN OF PEOPLE.

8 CHAIRMAN LO: THAT'S ACTUALLY A GOOD
9 SUGGESTION.

10 DR. OLDEN: WE RAISED THAT EARLIER WHEN THE
11 PRESENTATION WAS RAISED, AND WE THOUGHT DENMARK SHOULD
12 BE A PLACE WITH GOOD DATA. YOU'RE RIGHT. SOME FROM
13 SOUTH AMERICA AS WELL.

14 DR. TAYLOR: BUT I THINK WE'RE REALLY
15 INTERESTED IN DONOR CYCLES, AND THAT IS MORE DIFFICULT
16 TO SORT OF PUT YOUR FINGER ON. SO THE SWITZERLAND AND
17 DENMARK HAVE VERY RESTRICTIVE PROGRAMS FOR THEIR IVF,
18 BUT HOW MUCH IS REALLY KNOWN ABOUT DONOR PROGRAMS
19 WITHIN THOSE COUNTRIES? THAT WAS ONE OF THE QUESTIONS
20 THAT WE RAISED TO DR. GUIDICE. I THINK IT'S NOT SO
21 RELEVANT. IT'S PROBABLY MORE RELEVANT TO THE DONOR
22 POPULATION, FRANKLY, WHEN YOU'VE GOT VERY RESTRICTIVE
23 IVF REGULATIONS, BUT IT STILL DOESN'T SEEM TO BE AS
24 REPRESENTATIVE OF THOSE WOMEN WHO ARE NOT GOING TO BE
25 AT RISK OF PREGNANCY.

1 DR. KIESSLING: DID YOU TOUCH ON THE CONCEPT
2 OF EGG SHARING? DID I MISS THAT?

3 DR. TAYLOR: SHE RAISED THAT.

4 CHAIRMAN LO: ANN, SO THAT WE TRY AND FILL
5 YOU IN. SO WHAT WE'RE TALKING ABOUT IS SORT OF
6 GUIDELINES REALLY FOR THE MEDICAL QUESTION OF HOW CAN
7 YOU MINIMIZE THE RISK OF MEDICAL COMPLICATIONS. SO AS
8 YOU KNOW, WE'VE TALKED A LOT ABOUT PSYCHOLOGICAL
9 SCREENING AND SORT OF ASSESSING COMPREHENSION AND LACK
10 OF DURESS AND THINGS. AND THIS REALLY WAS MEANT TO
11 COME OUT OF THIS WORKSHOP AND SORT OF TO PROVIDE A
12 LITTLE MORE GUIDANCE TO INVESTIGATORS AND SCRO'S OR
13 IRB'S AS TO SORT OF WHAT EXACTLY DO WE MEAN BY
14 SCREENING OR MONITORING?

15 CERTAINLY I THINK WE COULD GET -- I THINK
16 YOUR IDEA OF GOING TO OTHER PARTS OF THE WORLD WHO HAVE
17 A LOT MORE EXPERIENCE WITH WOMEN WHO AREN'T CAUCASIAN,
18 AREN'T NECESSARILY UPPER CLASS, BECAUSE IT MAY BE
19 COVERED BY INSURANCE, WOULD CERTAINLY GIVE US A WINDOW
20 ON IF THEY SAY, WELL, WE TRIED WHAT THEY DID IN NEW
21 YORK AND IT DOESN'T WORK FOR US BECAUSE DA-DA-DA-DA,
22 THE DOSES HAVE TO BE DIFFERENT, THAT WOULD BE EXTREMELY
23 HELPFUL. I THINK WE CERTAINLY SHOULD BE ABLE TO GET
24 THAT INFORMATION AS INPUT TO THE COMMITTEE. WHETHER OR
25 NOT WE CAN GET ONE OF THE PANELISTS OR THE CONSULTANTS

1 TO BE FROM OTHER AREAS, I THINK, GETS INTO QUESTIONS OF
2 FEASIBILITY AND BUDGET, BUT I THINK WE SHOULD BE ABLE
3 TO GET THE INFORMATION OF DOES THIS SEEM -- WOULD THAT
4 WORK IN YOUR POPULATION? IF NOT, HOW DO YOU DO IT?
5 WHAT'S THE REASONING? WHAT'S YOUR EXPERIENCE?

6 DR. ROWLEY: I THINK WE SHOULD BE REALLY
7 CAREFUL. AND I COME BACK AND QUESTION BOB AND HIS IDEA
8 OF COMBINING THINGS. IF, IN FACT, ONE GOAL IS TO TRY
9 TO GET SOME KIND OF GUIDELINES THAT SEEM REASONABLE IN
10 THE INTERIM, THEY'RE GOING TO HAVE THEIR LIMITATIONS
11 AND THEIR DEFECTS, BUT SHOULD WE PUSH FOR THAT AND,
12 THEREFORE, IT WOULD BE A SMALLER COMMITTEE, REALIZING
13 THAT THIS OTHER INFORMATION CAME FORWARD, YOU MODIFY
14 THE GUIDELINES. AND SO I GUESS IT'S A MATTER OF
15 PRIORITIES. IF GOOD PRACTICES GUIDELINES, REALIZING
16 THAT THEY ARE FLAWED AND, THEREFORE, TEMPORARY, IF YOU
17 WILL, OR SOME ASPECTS MIGHT BE TEMPORARY, SHOULD WE AS
18 A GROUP SUPPORT A MORE LIMITED FIRST STEP WITH THE
19 NOTION THAT WE ARE SUPPORTING THE OTHER ASPECTS, BUT
20 THEY MAY TAKE MORE TIME TO IMPLEMENT IN A THOUGHTFUL
21 WAY?

22 CHAIRMAN LO: WE HAVE TENDED TO TAKE A
23 POSITION HERE ON THIS COMMITTEE THAT WE ARE ALWAYS OPEN
24 TO MODIFYING OUR THINKING BASED ON MORE DATA, OTHER
25 EXAMPLES. SO I LIKE THE IDEA OF INTERIM GUIDANCE

1 SUBJECT TO CHANGE.

2 WE'VE HAD A LOT OF DISCUSSION, WHICH I THINK
3 HAS BEEN USEFUL. I WANT TO MAKE SURE WE GET SOME
4 PUBLIC INPUT. I DON'T KNOW IF THERE ARE PEOPLE IN THE
5 PUBLIC WHO WANT TO COMMENT ON THE DISCUSSION WE'VE HAD
6 AFTER THE BREAK. IF SO, MAYBE THIS WILL BE A GOOD TIME
7 TO GIVE YOU ALL A CHANCE TO MAKE YOUR COMMENTS.

8 JUST FOR THE RECORD, INTRODUCE YOURSELF AND
9 WHO YOU ARE BEFORE YOU SPEAK.

10 MS. CROWLEY: I'M SHANNON SMITH CROWLEY,
11 REPRESENTING THE AMERICAN SOCIETY FOR REPRODUCTIVE
12 MEDICINE. I HAD CHECKED IN EARLIER WITH THE ASRM TO
13 SEE IF THEY HAD SPECIFIC PRACTICE GUIDELINES ABOUT THIS
14 PROCESS, AND THEY HAD NOT YET DEVELOPED SOMETHING
15 THEMSELVES. AND SO LOOKING AT THIS ISSUE THAT YOU'RE
16 TALKING ABOUT IN TERMS OF HAVING SUFFICIENT EVIDENCE TO
17 GO FORWARD IS VERY PROBLEMATIC. IT LOOKS LIKE YOU DO
18 HAVE A NUMBER OF THINGS THAT ARE SUGGESTED WHERE YOU,
19 FOR INSTANCE, EXCLUDE WOMEN THAT HAVE CERTAIN
20 CONDITIONS, AND THERE'S A LOT OF THINGS THAT YOU CAN DO
21 TO BE VERY SAFE AND MAYBE GO FURTHER THAN YOU WOULD IN
22 AN IVF SITUATION.

23 BUT FOR A DONOR SITUATION, FOR INSTANCE, A
24 CERTAIN BODY MASS INDEX, THE POLYCYSTIC OVARIAN
25 SYNDROME, THOSE SORTS OF THINGS WHERE THERE'S NOT

1 REALLY QUITE THE SAME BENEFIT THERE, THAT YOU CAN
2 CERTAINLY EXCLUDE THOSE.

3 ONE OF THE PROBLEMS WE HAVE WITH GETTING A
4 LOT OF SPECIFICITY INTO THE GUIDELINES IS, AND I THINK
5 ALL OF YOU WERE SAYING THIS, IS THAT THIS IS A FIELD
6 THAT EVOLVES QUICKLY AND MAY BE OUT OF DATE, AND YOU
7 DON'T NECESSARILY WANT TO HAVE PEOPLE BE HELD TO
8 CERTAIN GUIDELINES THAT MAY END UP BEING WORSE THAN
9 WHAT YOU WANT. SO JUST I WOULD ENCOURAGE YOU TO HAVE
10 MAYBE SOME BROAD PARAMETERS AND ALLOW FOR SOME
11 CONTINUED FLEXIBILITY.

12 DR. PETERS: MAY I ASK SHANNON A QUESTION?
13 SHANNON, WHAT DO YOU THINK ABOUT KEN OLDEN'S POINT
14 EARLIER, THAT THE DEGREE OF RISK FOR AN EGG DONOR FOR
15 RESEARCH OUGHT TO BE MUCH SMALLER THAN THAT FOR SOMEONE
16 WHO IS PLANNING A PREGNANCY? DO YOU THINK JUST THE
17 SHEAR EXCLUSION, THEN, OF MORE WOMEN FROM DONATING EGGS
18 FOR RESEARCH WOULD ACCOMPLISH WHAT KEN IS ASKING FOR?
19 AND DO YOU THINK THAT WE CAN EASILY COME UP WITH THE
20 CRITERIA FOR THAT EXCLUSION?

21 MS. CROWLEY: I THINK YOU COULD BEGIN A LIST
22 FOR EXCLUSIONS. AND THAT, AGAIN, LOOKING AT THE RISK
23 BENEFIT, AND THIS BEING A DONOR POPULATION VERSUS IVF,
24 THAT IT WOULD MAKE MORE SENSE THAN TO SAY TO SOMEBODY
25 WHO HAS POLYCYSTIC OVARIAN SYNDROME WHO WANTS TO HAVE A

1 BABY, SAYING YOU CAN'T PARTICIPATE IN IVF, THAT'S NOT
2 REALISTIC OR FAIR TO THAT WOMAN. BUT THERE MAY NOT BE
3 THE NEED FOR THAT WOMAN IF WE'VE GOT OTHER WOMEN IN THE
4 POPULATION TO DONATE.

5 ONE OF THE THINGS, WHEN I WENT TO THE IOM
6 MEETING IN SEPTEMBER, AND I THOUGHT IT WAS A FABULOUS
7 MEETING, SOME OF THE THINGS THAT THEY REALLY BROUGHT
8 OUT WERE, AND I THINK DR. GUIDICE DID AN EXCELLENT JOB,
9 BUT I WANTED TO REITERATE WAS THE RISK FOR THE
10 HYPERSTIMULATION SYNDROME IS GOING TO BE MANY FOLDS
11 TIME HIGHER FOR A WOMAN WHO IS DOING THIS PROCESS FOR
12 IN VITRO FERTILIZATION BECAUSE SHE WILL BE PREGNANT AND
13 HER HORMONES WILL BE DIFFERENT. ESSENTIALLY ONCE SHE'S
14 COMPLETED THE PROCESS FOR DONATION AND THE HORMONES
15 DROP OFF, THE LATE HYPERSTIMULATION SYNDROME VIRTUALLY
16 GOES AWAY. SO JUST THE FACT THAT YOU'RE DEALING WITH A
17 DONOR POPULATION VERSUS FOR FERTILITY, YOU ARE GOING TO
18 HAVE A MUCH LOWER RISK OF THAT SYNDROME IN THE FIRST
19 PLACE. AND THEN THERE ARE KNOWN CONDITIONS THAT ARE
20 GOING TO MAKE THIS RISKIER, AND YOU CAN START TO
21 EXCLUDE THOSE.

22 DR. PETERS: THANKS A LOT.

23 CHAIRMAN LO: SHANNON, BEFORE YOU SIT DOWN,
24 COULD I ASK YOU A CLARIFICATION? AND YOU MAY NOT KNOW
25 THIS, BUT IF YOU COULD FIND OUT, THAT WOULD BE GREAT.

1 LINDA GUIDICE GAVE US A COPY OF -- THESE ARE THE ASRM
2 GUIDELINES IN *FERTILITY AND STERILITY* ON OVARIAN
3 HYPERSTIMULATION SYNDROME. SO YOU'RE SAYING SART DOES
4 NOT HAVE ITS OWN SET OF GUIDELINES OR PRACTICE
5 PARAMETERS, WHATEVER YOU WANT TO CALL THEM, ON OHSS?

6 MS. CROWLEY: THANK YOU FOR ASKING FOR THE
7 CLARIFICATION. MY COMMENT WAS MORE TO PROTOCOLS FOR
8 THE ENTIRE PROCESS OF THE STIMULATION RATHER THAN
9 SPECIFICALLY IN MANAGING THE HYPERSTIMULATION SYNDROME.

10 DR. ROWLEY: CAN I ASK BECAUSE ALSO IN THIS
11 GUIDELINE RISK FACTORS INCLUDE LOW BODY WEIGHT. AND
12 WHAT WE WERE TOLD IN THE PRESENTATION WAS THAT IT'S
13 INCREASED BODY MASS, BMI, THAT'S A RISK FACTOR. AND
14 THEY WOULD SEEM TO BE EXACTLY OPPOSITE.

15 MS. CROWLEY: I CAN'T ANSWER THAT SPECIFIC
16 QUESTION. I'D HAVE TO ASK DR. GUIDICE FOR THAT.

17 CHAIRMAN LO: JUST A POINT OF INFORMATION.

18 DR. ROWLEY: WHAT DO YOU THINK, ROBERT?

19 DR. TAYLOR: RISKS ARE PROBABLY HIGH AT BOTH
20 EXTREMES OF THE WEIGHT RANGE MOSTLY BECAUSE OF THE KIND
21 OF DOSAGE-TO-VOLUME DISTRIBUTION AND THE STIMULATION OF
22 THE OVARIES IN A SMALL WOMAN.

23 CHAIRMAN LO: CAN I ASK ONE MORE THING,
24 SHANNON, JUST TO CLARIFY? CAN YOU JUST EXPLAIN TO US
25 BRIEFLY THE DISTINCTION BETWEEN SART AND ASRM?

1 MS. CROWLEY: ASRM IS A SOCIETY OF
2 APPROXIMATELY 9,000 PROFESSIONALS, PHYSICIANS, NURSES,
3 SCIENTISTS, THAT ARE IN THE REPRODUCTIVE HEALTH FIELD.
4 SART IS A SISTER ORGANIZATION, AND IT'S MORE FOR THE
5 ACTUAL FACILITIES THAT ARE PERFORMING THE IN VITRO
6 FERTILIZATION.

7 CHAIRMAN LO: SO I'M THINKING VIN DIAGRAMS,
8 THERE'S SOME OVERLAP, BUT THERE'S ALSO A LOT OF
9 DIFFERENCE?

10 MS. CROWLEY: CORRECT.

11 DR. TAYLOR: SART USUALLY DOESN'T PROMULGATE
12 A LOT OF GUIDELINES. THEY TEND TO BE MORE ON THE SORT
13 OF DATA RECEPTION SIDE OF THINGS, AND THEY DO --

14 CHAIRMAN LO: AS IN SORT OF THE OUTCOMES.

15 DR. TAYLOR: -- MONITOR THE CLINICS AND THAT
16 SORT OF THING.

17 MS. CROWLEY: IF YOU WOULD LIKE, I CAN GIVE
18 TO THE GROUP, I BROUGHT WITH ME A LIST OF ALL OF THE
19 DIFFERENT ISSUE AREAS WHERE ASRM HAS TAKEN POSITION
20 PAPERS OR COMMENT AREAS SO YOU CAN SEE THE KIND OF
21 THINGS WHERE THEY DO HAVE DIFFERENT GUIDELINES AND
22 DIFFERENT RECOMMENDATIONS IF YOU WOULD LIKE THAT.

23 CHAIRMAN LO: INFORMATION IS ALWAYS HELPFUL.
24 THANKS. OTHER MEMBERS OF THE PUBLIC WANT TO COMMENT?
25 OKAY. SO I'M TRYING TO SORT OF THINK OF WHERE WE ARE.

1 LET ME TAKE A STAB JUST TO SORT OF SEE IF WE CAN GET US
2 ROLLING.

3 AGAIN, I'LL TRY AND BREAK INTO THREE AREAS,
4 BUT WE'VE SORT OF SAID HOW WE NEED THEM TO OVERLAP AND
5 REINFORCE EACH OTHER, AND THEY MAY HAVE DIFFERENT
6 TIMELINES. ONE WOULD BE TO CONVENE A GROUP OF
7 CONSULTANTS TO DEVELOP INTERIM BEST PRACTICE GUIDELINES
8 ON MINIMIZING THE RISK OF OHSS IN OOCYTE DONORS. AND
9 WE WOULD WANT THAT TO BE ON A RELATIVELY SHORT TIMELINE
10 BECAUSE WE'D LIKE IT TO BE IN PLACE AS INVESTIGATORS
11 BEGIN TO DEVISE PROTOCOLS AND DIFFERENT ORGANIZATIONS
12 TO REVIEW THOSE PROTOCOLS.

13 WE WOULD WANT THAT COMMITTEE TO HAVE
14 EXPERTISE AND EXPERIENCE WITH CARRYING OUT OOCYTE
15 RETRIEVAL IN A VARIETY OF POPULATIONS, AND WE MENTIONED
16 A NUMBER OF STRATEGIES FOR DOING THAT. GOING TO
17 STATES, GETTING SOME MEMBERS FROM STATES THAT HAVE
18 HEALTH COVERAGE, INSURANCE COVERAGE, WHICH TENDS TO
19 BROADEN THINGS OUT A LITTLE BIT, GOING TO OTHER
20 COUNTRIES THAT HAVE POPULATIONS WHICH ARE DIFFERENT
21 THAN THE PREDOMINANT POPULATION THAT RECEIVES IVF IN
22 THIS COUNTRY. AND THAT WE ALSO WOULD WANT, IF
23 POSSIBLE, AND I CAN THINK OF SOME WAYS TO DO THAT,
24 GEOFF. I MAY BE ABLE TO MAKE AVAILABLE -- HAVE SOME OF
25 OUR INVESTIGATORS MAKE AVAILABLE THEIR PROTOCOLS TO

1 THIS COMMITTEE ON THE GROUNDS THAT HAVING ACTUAL
2 PROTOCOLS TO LOOK AT WOULD HELP THIS GROUP OF
3 CONSULTANTS TO INFORM THEIR DELIBERATIONS. SO THAT'S
4 ONE.

5 I ALMOST WANT TO SORT OF ASK IF WE WOULD BE
6 WILLING TO SORT OF CHARGE, I GUESS IT WOULD BE, GEOFF
7 WITH KIND OF TRYING TO FIGURE OUT HOW TO SET THIS UP.
8 THE NOTION WOULD BE THIS GROUP OF EXPERT CONSULTANTS
9 WOULD REPORT BACK TO THIS GROUP, WHICH WOULD THEN
10 DISCUSS, DELIBERATE, REFINE WITH PUBLIC COMMENT, AND WE
11 WOULD SORT OF PRESENT THAT TO ICOC, GEOFF. SO IT WOULD
12 BE SEVERAL DIFFERENT STEPS.

13 ANOTHER THING IS I GUESS FOR US TO THINK MORE
14 ABOUT HOW THIS GROUP COULD BE INVOLVED NOT JUST IN THAT
15 FIRST ACTIVITY, BUT IN THE EXAMINATION OF PROTOCOLS
16 BEING DEVELOPED AND SUBMITTED, WHETHER IT'S PART OF A
17 REVIEW PROCESS, BUT WE DON'T WANT TO INTERFERE WITH THE
18 GRANTS WORKING GROUP, WHETHER WE CAN BE OF USE TO THEM,
19 WHETHER WE CAN BE OF USE TO IRB'S OR SCRO'S. I THINK
20 THERE'S SOME SENSE THAT MAYBE WE HAVE A ROLE TO PLAY IN
21 KIND OF HELPING TO THINK THROUGH THE ISSUES THAT ARE
22 COMING UP WITH CERTAIN TYPES OF RESEARCH. I THINK
23 OOCYTE DONATION, AS WE'VE SAID, FOR RESEARCH TENDS TO
24 BE ONE OF THESE SENSITIVE AREAS WHERE WE REALLY WANT TO
25 GIVE IT GOOD THOUGHT. I'M NOT QUITE AS CLEAR HOW WE

1 CAN DO THAT INSTITUTIONALLY, BUT I HAD A SENSE THAT
2 SEVERAL PEOPLE THOUGHT THIS WOULD BE AN IMPORTANT
3 THING, A VALUABLE THING FOR US TO DO, AND I THINK WE
4 NEED TO -- I'D LIKE TO GET A SENSE OF DO WE ALL THINK
5 THAT, AND THEN WE WOULD NEED TO THINK MORE HOW TO DO
6 IT.

7 AND THE FINAL THING, AGAIN, WE WANT TO
8 INTERFACE WITH THE OTHER TWO IS TO TRY AND ENCOURAGE
9 COLLECTION OF MORE AND BETTER EMPIRICAL DATA ON RISK TO
10 OOCYTE DONORS, AND PART OF THE BETTER IS JUST BETTER
11 DATA IN TERMS OF TAKING MORE PRECISE DEFINITIONS AND
12 STANDARD DEFINITIONS AND MAKING SURE WE TAKE INTO
13 ACCOUNT THE WOMAN WITH OHSS, DID SHE GET PREGNANT OR
14 NOT, BUT ALSO BEING MORE INCLUSIVE IN TRYING TO COLLECT
15 DATA ON GROUPS THAT ARE DIFFERENT THAN THE POPULATIONS
16 WHO ARE PROVIDING THE DATABASE WITH CURRENT DATA. AND
17 I THINK PART OF IT MAY BE TRYING TO SORT OF PUSH AHEAD
18 PART OF THE STRATEGIC PLAN. AGAIN, I'M NOT QUITE CLEAR
19 HOW WE WANT TO DO THAT AND HOW FAR THIS IS OUR CHARGE
20 AS OPPOSED TO OUR GIVING A STRONG RECOMMENDATION TO
21 EITHER THE ICOC OR TO THE NEW PRESIDENT OF CIRM OR TO
22 THE GRANTS WORKING GROUP OR THE STRATEGY WORKING GROUP.
23 I'M NOT QUITE SURE HOW MUCH WE NEED TO DO, BUT WE
24 OBVIOUSLY HAVE PEOPLE WHO HAVE THOUGHT A LOT ABOUT IT.
25 THAT'S HOW I'M SORT OF THINKING THROUGH

1 THINGS AT THIS POINT. I JUST WANT TO SORT OF, ASSUMING
2 THAT WASN'T OUR DINNER THAT CRASHED TO THE FLOOR, I
3 WANTED TO TRY AND SORT OF MOVE US ALONG HERE.

4 DR. KIESSLING: BERNIE, ARE YOU THINKING OF
5 SORT OF LIKE A DONOR REGISTRY?

6 CHAIRMAN LO: I'M NOT --

7 DR. KIESSLING: JEFF, IS IT YOUR SENSE THAT
8 THERE WOULD BE FUNDS AVAILABLE TO ORGANIZE LIKE AN EGG
9 DONOR REGISTRY? THAT WOULD JUST BE AWESOME.

10 MR. SHEEHY: I THINK THERE'S -- AS GEOFF
11 LOMAX NOTED, WITHIN THE STRATEGIC PLAN THERE IS FUNDING
12 ALLOCATED TO COLLECT -- TO DO THIS SORT OF DATA
13 COLLECTION. I THINK WE COULD PUT AN RFA TOGETHER FOR
14 WHATEVER PARTICULAR PROCESS.

15 DR. KIESSLING: WE'VE ACTUALLY TALKED ABOUT
16 THAT BEFORE.

17 MR. SHEEHY: IN A WAY THIS IS WHERE THE
18 THINKING NEEDS TO COME FROM, AND IT'S NOT EVER GOING TO
19 BE SLOW. AND THERE REALLY IS NOT A FUNDING SHORTAGE AT
20 THIS TIME. RIGHT. AND PRESUMABLY BY THE END OF THE
21 SUMMER, WE SHALL HAVE SOME FINAL DISPOSITION OF THE
22 LAWSUIT, HOPEFULLY FAVORABLY, AND THEN THERE REALLY
23 WON'T BE A FUNDING SHORTAGE. SO IT JUST SEEMS TO ME
24 THAT THIS ONE ISSUE ON OOCYTE DONATION IS ONE THAT'S
25 IMMEDIATE, AND IT'S NOT GOING TO DO US ANY GOOD TO FUND

1 A STUDY THREE YEARS DOWN THE ROAD TO SEE WHAT'S BEEN
2 GOING ON FOR THE PAST UMPTEEN YEARS. WHEN THE STUDY IS
3 FINISHED, WE'LL HAVE A NICE RETROSPECTIVE.

4 I REALLY THINK THAT WHAT I'M HEARING IS THAT
5 WE NEED DATA NOW, AND WE SHOULD DIRECT THE -- WE SHOULD
6 SEND IN THE REPORT THAT GOES UP TO THE ICOC A STRONG
7 SIGNAL THAT THE DATA NEEDS TO BE COLLECTED. I THINK
8 THAT THIS HAS BEEN A NON -- THIS WAS CONSIDERED TO BE
9 THE MOST CONTROVERSIAL SET OF ISSUES THAT WE WOULD FACE
10 AS AN ENTITY. AND BECAUSE OF THE EXTRAORDINARY WORK OF
11 THIS COMMITTEE, IT HAS NOT BEEN, AND I THINK THAT THE
12 ICOC WOULD RESPECT THE DILIGENCE AND THE DELIBERATE WAY
13 IN WHICH THIS COMMITTEE HAS CONDUCTED ITSELF, THAT
14 THEIR RECOMMENDATIONS WOULD HAVE STRONG WEIGHT. I
15 THINK THAT WE HAVE THE ABILITY TO DO THIS. IT'S JUST
16 WHAT SHOULD WE DO, AND THAT'S WHY THIS COMMITTEE
17 EXISTS.

18 DR. TAYLOR: WELL, IF THERE ARE ABOUT 15,000
19 DONOR CYCLES IN THE COUNTRY, I WOULD GUESS THAT ABOUT
20 20 PERCENT OF THOSE ARE HAPPENING IN CALIFORNIA. THAT
21 WOULD BE A PRETTY GOOD -- ANNUALLY. THAT'S A PRETTY
22 GOOD NUMBER TO FLOAT AN RFA TO TRY TO COLLECT SOME OF
23 THAT DATA AND TO --

24 DR. KIESSLING: SOME OF IT'S GOING TO BE IN
25 THE SART DATABASE, RIGHT?

1 DR. TAYLOR: THERE'S NOT A LOT ON DONORS.
2 THERE'S A LOT ON DONOR -- THE RECIPIENTS. WE'VE GOT
3 THOSE DATA PRETTY WELL COVERED. WHAT I'M THINKING OF
4 IS IF WE LOOK NATIONALLY, WE'D BE ABLE TO COLLECT AND
5 PROBABLY MORE -- WELL, MORE INTERESTING. IT WOULD BE
6 INTERESTING TO GET THAT DATA, BUT I THINK IT WOULD BE
7 AWFULLY HARD TO JUSTIFY, THINKING OFF TOP OF MY HEAD,
8 CIRM FUNDING A NATIONAL STUDY. IF YOU JUST LOOKED AT
9 THE PROGRAMS ACROSS CALIFORNIA AND HAD A CALIFORNIA RFA
10 FOR CIRM FUNDING FOR THIS, I WOULD THINK THAT IN A
11 COUPLE OF YEARS YOU COULD HAVE SOME PRETTY INTERESTING
12 INFORMATION.

13 CHAIRMAN LO: WELL, THERE ARE TWO ISSUES I
14 THINK WE HAVE TO THINK THROUGH WITH REGARD TO A
15 DATABASE. ONE, I THINK ARE WE GOING TO HAVE A DATABASE
16 OF OOCYTE DONORS FOR RESEARCH OR ALL OOCYTE DONORS?

17 DR. TAYLOR: WELL --

18 DR. KIESSLING: I WOULD THINK YOU WOULD DO IT
19 FOR RESEARCH. I REALLY AGREE WITH KEN. I REALLY THINK
20 THAT THE RISK TO THESE DONORS FOR RESEARCH NEEDS TO BE
21 ZERO. AND I DON'T THINK THAT THE RISK -- I THINK THE
22 INFERTILITY CLINICS -- I DON'T THINK WE WANT TO BE IN
23 THE BUSINESS OF REGULATING INFERTILITY CLINICS, BUT I
24 THINK THAT WE DO WANT TO BE IN THE BUSINESS OF
25 OVERSEEING AND PROTECTING HUMAN SUBJECTS RESEARCH. I

1 THINK THAT'S A BIG DIFFERENCE, AND I THINK THAT YOU ARE
2 GOING TO COME UP WITH GUIDELINES FOR HORMONE TREATMENT
3 FOR THOSE WOMEN THAT ARE GOING TO BE QUITE DIFFERENT
4 FROM THE ONES THAT ARE DONE IN SOME OF THE INFERTILITY
5 CLINICS. THE WHOLE DEMOGRAPHICS OF THOSE FOLKS, I
6 THINK, ARE GOING TO BE DIFFERENT. AND SO I WOULD
7 REALLY THINK IT WOULD BE -- I CERTAINLY THINK YOU ARE
8 GOING TO BE ABLE TO COME UP WITH ADVERSE OUTCOMES.
9 FROM WHAT BOB'S TALKING ABOUT, I'M NOT SURE THAT PEOPLE
10 GOING THROUGH THIS FOR RESEARCH PURPOSES WOULD BE
11 EXPOSED TO THAT KIND OF RISK ANYWAY. I THINK IT'S LIKE
12 A WHOLE DIFFERENT SET OF LADIES AND A DIFFERENT KETTLE
13 OF FISH. YOU COULD CERTAINLY FROM THAT DATABASE COME
14 UP WITH WHAT NOT TO DO PERHAPS.

15 DR. TAYLOR: THAT'S WHAT I'M THINKING BECAUSE
16 THE NUMBERS OF SUBJECTS THAT WE'LL HAVE IN DONATION FOR
17 RESEARCH PURPOSES, THAT'S A WONDERFUL LONG-TERM STUDY,
18 BUT I THINK TO COME UP WITH GUIDELINES THAT WOULD
19 INFORM US ABOUT POTENTIAL RISKS, I JUST THINK IT'S
20 GOING TO TAKE US TOO LONG TO GET THE INFORMATION. I
21 AGREE IT'S A VERY CONSERVATIVE GROUP IN A WAY BECAUSE I
22 THINK WE'LL OVERESTIMATE THE RISK THAT THOSE SUBJECTS
23 WOULD BE EXPOSED TO, BUT I'D RATHER OVER THAN
24 UNDERESTIMATE THAT RISK.

25 CHAIRMAN LO: IT STRIKES ME ALSO THAT THERE

1 ARE SOME OTHER ISSUES WE SHOULD THINK ABOUT. ONE IS
2 LONG-TERM FOLLOW-UP. DO WE WANT TO FOLLOW THESE
3 PEOPLE, GET PERMISSION AT THE TIME THEY AGREE TO BE
4 OOCYTE DONORS, TO FOLLOW THEM UP FOR MANY YEARS TO SEE
5 WHAT HAPPENS DOWN THE ROAD?

6 DR. KIESSLING: MAYBE WE SHOULD JUST COLLECT
7 EGGS FROM NURSES, THE NURSES STUDY.

8 CHAIRMAN LO: THEY REPORT. THE OTHER
9 QUESTION IS I GUESS THERE ARE GOING TO BE OTHER STATES
10 THAT ARE GOING TO BE TRYING TO DO THIS, RIGHT?
11 MASSACHUSETTS, IF I CAN TRUST THE NEWSPAPERS. ONE
12 QUESTION WOULD BE IS CIRM INTERESTED IN TRYING TO --
13 THIS IS REALLY SORT OF HYPOTHETICAL -- COLLABORATING
14 WITH OTHER STATES WHO ARE ALSO FUNDING STEM CELL
15 RESEARCH AND OOCYTE DONATION FOR RESEARCH AND DOING
16 SOME INTRASTATE. I'M WONDERING, IT SEEMS LIKE WE HAVE
17 SOME IDEAS, BUT WE MAY NEED MORE SORT OF RESEARCH
18 DESIGN BY A STATISTICS INPUT TO SAY HOW MANY PEOPLE,
19 BUT MAYBE WHAT WE SHOULD DO IS SORT OF TRY AND MAKE A
20 RECOMMENDATION THAT A GROUP WITHIN CIRM SORT OF REALLY
21 PUSH THIS AS PART OF, AGAIN, A SMALL WORKING GROUP TO
22 SORT OF SAY LET'S DEVELOP AN RFA THAT REALLY ADDRESSES
23 THIS PROBLEM AND DOES IT IN A COMPREHENSIVE WAY.

24 MR. SHEEHY: MAYBE YOUR CONSULTING GROUP
25 MIGHT NOT BE A BAD BODY TO DEVELOP THE RFA BECAUSE THEY

1 ACTUALLY WOULD HAVE THE EXPERTISE. ONE WITH
2 SPECIALIZED EXPERTISE, I THINK, IF YOU PICK THAT GROUP
3 THE WAY THAT YOU ARE DESCRIBING IT, THEY COULD PROBABLY
4 COME UP WITH AN RFA, AND THAT WOULD PROBABLY BE THE
5 BEST GROUP TO DESCRIBE AN RFA.

6 CHAIRMAN LO: IT MAY NEED --

7 MR. SHEEHY: IF IT'S DESIGNED RIGHT, OTHER
8 GROUPS COULD POSSIBLY BUY IN AS TIME GOES ON.

9 CHAIRMAN LO: IT MAY NEED PEOPLE WHO ARE
10 RESEARCH EPIDEMIOLOGY BIOSTATISTICS TYPES. I LIKE THIS
11 NOTION OF TRYING TO GET SYNERGY BETWEEN THE DIFFERENT
12 GROUPS.

13 MR. SHEEHY: THESE PIECES CAN WORK TOGETHER
14 ACTUALLY. BESIDES JUST LOOKING AT CALIFORNIA, THEY MAY
15 HAVE OTHER DATA SETS THAT THEY THINK MIGHT BE
16 INTERESTING TO INCLUDE IN THE MIX TO GET THE DIVERSITY
17 OF DATA THAT WE NEED.

18 DR. TAYLOR: I WAS JUST MORE CONCERNED ABOUT
19 HOW BROADLY CIRM WAS INTERESTED IN SPREADING ITS FUNDS.

20 MR. SHEEHY: ULTIMATELY THE GOAL HERE IS
21 PATIENT SAFETY OR DONOR SAFETY.

22 CHAIRMAN LO: OR WE COULD DO IT IN A
23 TWO-STAGE, SEVERAL STAGE PROCESS. FIRST, GIVE US SOME
24 BEST PRACTICE GUIDELINES; AND THEN IF YOU'RE STILL
25 STANDING AND HAVE THE ENERGY, HELP US THINK THROUGH HOW

1 TO GET BETTER DATA. AND IT MAY NOT BE ALL THE SAME
2 MEMBERS, BUT AT LEAST WE MIGHT HAVE A CORE.

3 DR. KIESSLING: EGG SHARING IS OFF THE TABLE?
4 HOW IS THIS GOING TO RELATE TO -- THAT'S A VERY POPULAR
5 THING GOING ON IN ENGLAND RIGHT NOW.

6 CHAIRMAN LO: GEOFF, YOU'VE TALKED A LOT WITH
7 THE BRITS ABOUT THIS, OUR COLLEAGUES IN THE UK.

8 DR. LOMAX: SO THE QUESTION IS OF SERVICE FOR
9 EGGS. AT THE MOMENT THE WAY OUR REGULATIONS ARE
10 CONSTRUCTED, WE DON'T DO THAT.

11 DR. KIESSLING: WELL, SETTING ASIDE THE WHOLE
12 CONCEPT OF REIMBURSEMENT, WHAT THEY'RE DOING IN ENGLAND
13 IS THEY'RE ASKING WOMEN TO DONATE SOME OF THEIR EGGS
14 FOR RESEARCH PURPOSES THAT ARE GOING THROUGH
15 INFERTILITY TREATMENT, AND THEY'RE STRUGGLING WITH THE
16 CONSENT FORMS TO DO THAT. SOME AREAS THEY'RE HOPING
17 THAT THIS WILL KIND OF OFFSET THE COSTS OF THEIR OWN
18 IVF CYCLES. WE'VE JUST BEEN ASKED BY THE HARVARD
19 PROVOST TO LOOK AT THAT AND SEE WHAT'S WRONG WITH EGG
20 SHARING AT HARVARD'S ESCRO. AND I KNOW THAT WE'VE
21 TALKED ABOUT IT BEFORE. I DON'T KNOW IF IT'S BEEN
22 TOTALLY REJECTED AS A CONCEPT.

23 DR. LOMAX: THERE'S TWO POINTS. FIRST OF
24 ALL, WE DID CONTACT HFEA. AND IT'S STILL A WORK IN
25 PROGRESS IN TERMS OF -- THEY'RE GETTING DOWN TO THE

1 LEVEL OF, AS I UNDERSTAND IT, WHAT, FOR EXAMPLE, IF YOU
2 HAVE AN EGG SHARING ARRANGEMENT, WHAT COSTS ACTUALLY
3 ARE ELIGIBLE. THAT'S A WORK IN PROGRESS, AND WE'RE
4 WAITING TO SEE WHAT THEIR POLICY LOOKS LIKE. IT'S VERY
5 DIFFICULT TO IMAGINE HOW ANY SCENARIO THAT SORT OF
6 FALLS UNDER THE RUBRIC OF EGG SHARING WOULD NOT TRIGGER
7 OUR VALUABLE CONSIDERATION TRIGGER IN OUR REGULATIONS.
8 SO WHILE WE'RE PAYING ATTENTION TO IT, IT'S CERTAINLY
9 NOT A POLICY THAT IN MY DISCUSSIONS WITH COUNSEL, SO
10 YOU SORT OF SEE SOME SORT OF CARRY-OVER THAT WE WOULD
11 HAVE SORT OF AN EQUIVALENT ARRANGEMENT HERE.

12 DR. KIESSLING: SO SETTING ASIDE WHETHER OR
13 NOT IT WOULD HELP THEM COVER THEIR COST OF INFERTILITY,
14 ARE CLINICS BEING APPROACHED? IS ANYBODY THINKING OF
15 ORGANIZING CONSENT FORMS SO THAT YOU WOULD TALK TO A
16 WOMAN WHO'S ABOUT TO GO THROUGH AN IVF, AND WOULD SHE
17 LIKE TO DONATE TWO OF HER EGGS TO RESEARCH INDEPENDENT
18 AND NOT HAVE THAT HAVE ANYTHING TO DO WITH THE COST OF
19 HER TREATMENT? HAS THAT JUST BEEN TOTALLY SET ASIDE?

20 CHAIRMAN LO: AGAIN, TO GO BACK TO WHEN WE
21 DEVELOPED THE REGULATIONS, WE TALKED ABOUT NOT
22 COMPROMISING THE REPRODUCTIVE INTERESTS OF THE WOMAN
23 UNDERGOING FERTILITY TREATMENT. SO I THINK IT DOESN'T
24 RULE THAT OUT, BUT WE HAVE TO REALLY SORT OF -- I
25 THINK -- AS I REMEMBER GOING THROUGH THE MINUTES OF

1 THOSE MEETINGS, WE WANTED TO SET A HIGH BAR OF SORT OF
2 WHAT DOES IT MEAN TO SORT OF LOWER YOUR REPRODUCTIVE
3 PROBABILITY?

4 DR. LOMAX: THAT'S CORRECT. I WAS JUST
5 TRYING -- THANK YOU FOR JUMPING IN THERE, BERNIE.
6 THAT'S RIGHT. WE SORT OF TRIED TO BREAK THIS DOWN, AND
7 BOTH THE VALUABLE CONSIDERATION TRIGGER AND THE OPTIMAL
8 REPRODUCTIVE SUCCESS TRIGGER IN OUR REGULATIONS, IT
9 SEEMS TO VIOLATE BOTH THOSE AT FACE VALUE. AND SO
10 THAT'S WHERE, I THINK, THE IDEA THAT THIS WOULD BE
11 PRACTICED IN CALIFORNIA IS UNLIKELY.

12 DR. PETERS: COULD I JUST ASK JEFF A FACTUAL
13 QUESTION? IN THE APPLICATIONS FOR SCNT
14 EXPERIMENTATION, WERE THEY ALL FRESH EGGS, OR WERE SOME
15 OF THOSE FROZEN EGGS IN THOSE PROTOCOLS?

16 MR. SHEEHY: I DID NOT SEE THE ONE. ONE OF
17 THEM I DID NOT SEE, SO I HAVE NO INFORMATION ON IT.
18 THE OTHER ONE WAS WITH FROZEN EGGS, WHICH RAISED SOME
19 OF MY CONCERNS. I WONDER WHAT KIND OF INFORMED CONSENT
20 HAD BEEN PUT IN PLACE, IF THERE HAD EVEN BEEN INFORMED
21 CONSENT. SOMEBODY COULD JUST GO IN THE FREEZER AND
22 TAKE SOMETHING OUT. AND LOOKING AT THE APPLICATION,
23 THERE WAS ABSOLUTELY NO INFORMATION ABOUT THE PROCESSES
24 BY WHICH THESE EGGS HAD BEEN OBTAINED. THERE WAS --
25 THE REVIEW ENTITY WAS A PRIVATE IRB. IT WASN'T AN

1 INSTITUTIONAL IRB, AND THERE WAS NO SCRO REVIEW THAT
2 HAD TAKEN PLACE. SO THAT ONE MADE ME FEEL A LITTLE
3 UNCOMFORTABLE.

4 DR. KIESSLING: EGG FREEZING IS GETTING
5 BETTER AND EASIER AND MORE EFFICIENT, SO THAT'S
6 ACTUALLY GOING TO CHANGE THIS CONVERSATION QUITE A BIT.

7 WOULD IT BE USEFUL FOR THIS OVERSIGHT
8 COMMITTEE OR WHOEVER GROUP TO TALK ABOUT WHAT KIND OF
9 INFORMED CONSENT YOU NEED FOR THESE PATIENTS?

10 CHAIRMAN LO: I THINK THAT'S -- AS WE LOOK
11 AHEAD TO SORT OF WHAT SHOULD BE ON OUR AGENDA, I THINK
12 WHAT YOU ARE SUGGESTING IS THAT SHOULD BE SOMETHING
13 THAT WE CONSIDER. AND I GUESS CERTAINLY I WOULD DEFER
14 TO ROB. MY IMPRESSION IS THE SCIENCE IS GETTING
15 BETTER, OOCYTE FREEZING IS BECOMING MORE WIDELY
16 AVAILABLE, AND SO --

17 DR. PETERS: ARTICLES IN *SCIENCE* MAGAZINE;
18 APRIL 20 ON JUST THAT TOPIC.

19 CHAIRMAN LO: IT DOES OFFER A WAY OF GETTING
20 AROUND COMPROMISING THE REPRODUCTIVE SUCCESS OF THE
21 WOMAN IN IVF BECAUSE YOU CAN FREEZE SOME OOCYTES RATHER
22 THAN FREEZING EMBRYOS. AND IF YOU'VE COMPLETED YOUR
23 FAMILY, OKAY, NOW I DON'T NEED THOSE OOCYTES, TEN YEARS
24 AGO I WOULD SAY I DON'T NEED THOSE, AND I DON'T WANT TO
25 GIVE THEM TO ANOTHER WOMAN FOR HER REPRODUCTIVE USES.

1 I'D RATHER INSTEAD GIVE THEM TO RESEARCH.

2 IT STRIKES ME THAT WOULD ADDRESS A LOT OF
3 CONCERNS ABOUT DIVVYING UP, LIKE DEALING OUT FRESH
4 OOCYTES, ONE FOR ME, ONE FOR THE RESEARCHERS. THAT'S A
5 BIT ODD. IF YOU THINK THAT'S A REAL UP AND COMING THAT
6 WE SHOULD ADDRESS AND ISN'T COVERED -- I GUESS THE
7 OTHER THING IS THE ETHICAL ISSUES AREN'T COVERED IN OUR
8 CURRENT REGULATIONS. ARE THERE SPECIFIC THINGS ABOUT
9 FROZEN OOCYTES THAT WE HAVEN'T ADDRESSED? AND MAYBE IT
10 JUST MEANS WE NEED TO LEARN MORE ABOUT IT AND THINK IT
11 THROUGH AND, AS PAT SUGGESTED, SEE A COUPLE OF ACTUAL
12 PROTOCOLS. THAT MAY BE SOMETHING THAT WILL BE WELL
13 WORTH OUR DOING.

14 I THINK YOU'RE RIGHT. ANN AND TED AND ROB
15 HAVE SAID THIS IS GOING TO BE HAPPENING MORE AND MORE.
16 DO WE HAVE THINGS IN PLACE?

17 DR. LOMAX: CERTAINLY JUST TO ANSWER YOUR
18 QUESTION, AGAIN A FACE-VALUE READ OF THE REGULATIONS,
19 IF THOSE OOCYTES ARE TAKEN FROM THE FREEZER WITH THE
20 INTENT OF DERIVING A STEM CELL LINE, THEN OUR
21 REGULATIONS ARE INTACT. SO THE QUESTION SIMPLY BECOMES
22 THE ADEQUACY OF THE REGULATIONS, NOT WHETHER THAT
23 CIRCUMSTANCE IS ADDRESSED BY THE REGULATIONS. SO WE
24 CERTAINLY, I THINK, IN TERMS OF HOW WE CAST THE
25 REGULATIONS, I JUST WOULD LIKE TO REMIND THE WORKING

1 GROUP THAT THE INTENT TO DERIVE A CELL LINE TRIGGERS
2 ESSENTIALLY THE ENTIRE CONSENT PROCESS. SO THE
3 QUESTION MAY BECOME ONE OF THEN THE ADEQUACY OF THAT
4 PROCESS; HOWEVER, IT IS TRIGGERED BY VIRTUE OF THE
5 DERIVATION PROTOCOL.

6 CHAIRMAN LO: JUST TO FOLLOW THAT UP, THERE
7 ARE TWO SITUATIONS. ONE IS AN OOCYTE DONOR PROVIDES
8 OOCYTES PRIMARILY WITH THE INTENT FOR IVF, SOME ARE
9 FROZEN AND END UP NOT BEING USED. THE OOCYTE DONOR
10 WOULD HAVE TO CONSENT AS WELL AS THE IVF PATIENT TO
11 WHOM THE OOCYTES WERE GIVEN; IS THAT CORRECT?

12 DR. LOMAX: AND, AGAIN, THAT IS ADDRESSED IN
13 REGULATIONS. WE DO REQUIRE CONSENT FROM ALL GAMETE
14 DONORS. SO, YES. SHORT ANSWER TO THE QUESTION IS YES.

15 CHAIRMAN LO: SO I GUESS THE OTHER QUESTION
16 IS THE PAYMENT. IF YOU GOT PAID TO DONATE OOCYTES FOR
17 CLINICAL IVF, BUT IT ENDS UP YOU DON'T NEED THOSE
18 OOCYTES, JUST AS THEY'D GONE INTO EMBRYOS AND DON'T
19 NEED THEM, SO WHERE DO WE STAND ON CONSIDERATION FOR
20 THAT?

21 DR. LOMAX: I WILL REMIND THE COMMITTEE OF
22 THE JULY 17TH CONFERENCE CALL. THE CLOSEST WE GOT TO
23 THIS ISSUE WAS DISCUSSION OF FAILED-TO-FERTILIZE
24 OOCYTES THAT CAME FROM PAID DONORS. THE SENSE OF THE
25 COMMITTEE AT THAT TIME WAS THAT BY VIRTUE OF PAYMENT,

1 THE OOCYTES SHOULD NOT BE ALLOWED FOR DERIVATION; AND
2 SO, THEREFORE, THE INTERPRETATION AT THIS TIME IS ANY
3 PAID OOCYTE WOULD NOT BE USED FOR CIRM-FUNDED RESEARCH.
4 THE ISSUE HAS EMERGED IN SOME OF THE FACT-FINDING I'VE
5 DONE PURSUANT TO OUR EVALUATION INITIATIVE, AND THIS IS
6 IN THE CONTEXT OF EMBRYOS, AND WE CAN BRING THAT UP
7 TOMORROW BECAUSE I THINK IT WILL COME UP IN A MORE
8 HOLISTIC CONTEXT AT THAT TIME.

9 CHAIRMAN LO: OKAY. SO WHERE ARE WE NOW?
10 CAN I TRY AND MAKE A WILD STAB HERE AT TRYING TO CLOSE
11 THIS DOWN? LET ME TRY THREE THINGS. ONE IS THAT WE
12 AUTHORIZE, I GUESS, MAYBE ME AND GEOFF AND CIRM STAFF
13 TO PROCEED FURTHER IN CONVENING A GROUP OF --

14 DR. LOMAX: CAN I INTERRUPT YOU THERE? I SEE
15 SCOTT WAVING A FINGER, SO MY SENSE IS THERE MAY BE SOME
16 CONCERN ABOUT THE NATURE --

17 MR. TOCHER: I JUST WANTED TO CLARIFY FOR A
18 MOMENT THAT, FIRST OF ALL, JUST TO STEP BACK, PROCESS
19 ISSUES, WE DON'T HAVE A QUORUM PRESENT FOR THE GROUP.
20 SO THE GROUP WON'T BE TAKING ANY OFFICIAL ACTION, JUST
21 IN GENERAL.

22 CHAIRMAN LO: IT'S A SENSE OF THE COMMITTEE.

23 MR. TOCHER: THAT'S RIGHT.

24 DR. KIESSLING: WILL WE HAVE A QUORUM
25 TOMORROW?

1 CHAIRMAN LO: NO. WE GOING TO HAVE A QUORUM
2 TOMORROW? NO.

3 MR. TOCHER: THAT DOESN'T RENDER IT USELESS
4 WHAT YOU ARE DOING BECAUSE, TO MY SECOND POINT, WE'RE
5 NOT ACTUALLY LOOKING FOR THE COMMITTEE TO AUTHORIZE OR
6 CREATE THIS GROUP OF EXPERTS AND CONSULTANTS TO GATHER
7 THIS DATA, BUT RATHER TO, I THINK, ASSIST GEOFF AND
8 CIRM STAFF IN DIRECTING THE WORK OF THAT GROUP SO THAT
9 WHEN IT COLLECTS THE DATA, IT'S COLLECTING DATA AND
10 PERFORMING AN ANALYSIS THAT IT BRINGS TO YOU AND, WHERE
11 POSSIBLE, FORMULATE RECOMMENDATIONS SO THAT IT'S
12 HELPFUL FOR YOU WHEN YOU DECIDE WHICH RECOMMENDATIONS
13 YOU WANT TO BRING FORTH TO THE ICOC.

14 AND THE REASON FOR THIS, I WON'T GO INTO IT,
15 BUT JUST FOR A BUNCH OF BUREAUCRATIC RULES, THIS MAKES
16 THIS THE MOST EFFICIENT METHOD POSSIBLE FOR COLLECTING
17 THIS INFORMATION AND CONSOLIDATING IT FOR YOUR USE.
18 AND ONE OF THE DISTINCTIONS THERE THAT'S IMPORTANT TO
19 MAKE, THEN, IS THAT YOU'RE NOT AUTHORIZING IT TODAY.
20 IT'S NOT BEING CREATED BY YOU, BUT RATHER IS A CREATION
21 BY CIRM STAFF AS A TOOL FOR STAFF FOR THE COMMITTEE.

22 CHAIRMAN LO: HELP ME OUT HERE. IS THE
23 SENSE -- WE'D LIKE TO FIND OUT WHETHER IT IS THE SENSE
24 OF THE COMMITTEE THAT, AND YOU GUYS HAVE TO HELP ME,
25 THE SENSE OF THE COMMITTEE AND GEOFF THAT CIRM STAFF --

1 MR. TOCHER: THAT IT WOULD BE HELPFUL IF
2 GEOFF WERE ABLE TO BRING BACK, YOU KNOW, AN ANALYSIS OR
3 RECOMMENDATIONS REGARDING THESE SPECIFIC AREAS THAT
4 YOU'RE TALKING ABOUT.

5 CHAIRMAN LO: IT'S THE SENSE OF THE COMMITTEE
6 THAT IT WOULD BE HELPFUL IF GEOFF AND STAFF WOULD
7 OBTAIN FROM EXPERT CONSULTANTS BEST PRACTICE INTERIM
8 GUIDELINES ON HOW TO MINIMIZE RISKS TO OOCYTE DONORS
9 FOR RESEARCH WITH A PARTICULAR VIEW TOWARDS GETTING
10 INFORMATION ON MAKING RECOMMENDATIONS ON HOW TO
11 MINIMIZE RISKS FOR MINORITY WOMEN AND OTHER WOMEN WHO
12 ARE NOT REPRESENTED IN THE DATABASE OF CURRENT STUDIES
13 BY INCLUDING PEOPLE -- BY INCLUDING AMONG THOSE
14 CONSULTANTS PEOPLE WITH EXPERIENCE WITH SUCH
15 POPULATIONS. IS THAT SORT OF WHAT --

16 DR. TAYLOR: PERIOD.

17 CHAIRMAN LO: ALL RIGHT. SO WE'RE NOT DOING
18 MOTIONS. I GUESS I JUST SORT OF WANT TO GET A SENSE.
19 IS THAT A SENSE?

20 DR. PETERS: THAT'S THE SENSE. JUST ONE
21 CLARIFICATION. THEY WOULD PROVIDE DATA FOR US TO COME
22 UP WITH INTERIM GUIDELINES. THEY WOULDN'T DO IT FOR
23 US, RIGHT?

24 CHAIRMAN LO: THEY MIGHT RECOMMEND -- I THINK
25 THEY MIGHT RECOMMEND TO US WHAT THEY THINK GUIDELINES

1 MIGHT LOOK LIKE.

2 DR. PETERS: BUT THEY WOULD BE OUR
3 GUIDELINES.

4 CHAIRMAN LO: WE WOULD NEED -- AND THAT WOULD
5 BE A PUBLIC PROCESS. I THINK WE WOULD WANT, THEN, TO
6 HAVE PEOPLE LIKE THE PEOPLE HERE TODAY WHO HAVE
7 COMMENTED. SO IT'S REALLY ADVISORY.

8 MR. TOCHER: ADVISORY TO STAFF.

9 CHAIRMAN LO: ADVISORY TO STAFF. THANK YOU.
10 SO THAT'S ONE.

11 THE SECOND IS LET ME MAKE ANOTHER. IS IT THE
12 SENSE OF THIS COMMITTEE THAT -- WELL, I GUESS MAYBE WE
13 SHOULD TRY TOMORROW TO COME BACK TO THIS QUESTION OF
14 HOW WE SHOULD GET INVOLVED WITH PROTOCOLS THAT COME
15 ACROSS CIRM THAT RAISE ETHICAL CONCERNS BOTH FOR OUR
16 OWN EDUCATION AND ALSO TO PERHAPS ADD TO THE REVIEW AND
17 REVISION PROCESS. AND IT SOUNDS LIKE MAYBE WE COULD
18 SORT OF COGITATE ON THAT OVERNIGHT AND COME UP WITH
19 THAT TOMORROW.

20 AND THE THIRD THING, AGAIN I WOULD SUGGEST WE
21 TRY AND THINK ABOUT IT OVERNIGHT, IS TRYING TO --
22 AGAIN, TOMORROW TRY AND COME UP WITH WHAT'S THE SENSE
23 OF THIS COMMITTEE WITH REGARD TO GETTING CIRM INVOLVED
24 IN SENDING OUT AN RFP FOR BETTER AND MORE COMPREHENSIVE
25 AND MORE REPRESENTATIVE DATA ON THE RISKS OF OOCYTE

1 DONATION FOR RESEARCH?

2 MR. SHEEHY: I JUST WONDER IF WE COULD ADD A
3 LITTLE FRIENDLY AMENDMENT, WHICH IS ANN KIESSLING'S
4 RECOMMENDATION, THAT WE ACTUALLY COLLECT DATA ON THE
5 DONORS THAT WE FUND AS PART OF THAT RFA BECAUSE WE
6 REALLY SHOULD BE COLLECTING DATA ON ANY. THAT COULD
7 BE --

8 DR. KIESSLING: YOU NEED TO DO A DONOR
9 REGISTRY. THAT WOULD JUST BE FABULOUS.

10 CHAIRMAN LO: DONOR REGISTRY OF WOMEN
11 DONATING --

12 DR. KIESSLING: THEY SHOULD BE ANONYMOUS.

13 DR. ROWLEY: IF IT'S ANONYMOUS, YOU WILL
14 NEVER BE ABLE TO -- I WON'T SAY NEVER -- BUT THE DATA
15 REALLY THEN BECOME VERY LIMITED. IT SHOULD BE PRIVACY
16 PROTECTED. I'M ALL IN FAVOR OF THAT, BUT NOT
17 ANONYMOUS.

18 CHAIRMAN LO: THERE ARE -- AGAIN, I THINK
19 THERE ARE WAYS OF CRAFTING IT SO THAT WE TRY AND OBTAIN
20 LONG-TERM FOLLOW-UP CONSISTENT WITH PROTECTING THE
21 PRIVACY AND CONFIDENTIALITY OF --

22 DR. KIESSLING: I THINK THE DONORS PROBABLY
23 JUST DON'T WANT TO APPEAR AS A LIST IN THE *L.A. TIMES*
24 SOMEDAY.

25 MR. SHEEHY: YOU COULD DO A UNIQUE IDENTIFIER

1 SYSTEM.

2 CHAIRMAN LO: ALL RIGHT. HAVING REACHED THIS
3 POINT, IS IT THE SENSE AND PLEASURE OF THE COMMITTEE
4 THAT WE ADJOURN FOR THE EVENING?

5 MS. KING: YES.

6 CHAIRMAN LO: AND TRY AND FIND SOME DINNER?

7 MS. KING: YES.

8 CHAIRMAN LO: SOMEONE WANT TO MOVE THAT WE --
9 WE CAN'T DO ANYTHING. I CAN DO WHATEVER I WANT. IT'S
10 CLEARLY THE SENSE OF THE COMMITTEE. GREAT. SO THANK
11 YOU VERY MUCH. AND THEN LET'S GO HAVE DINNER, AND THEN
12 WE'RE GOING TO RECONVENE HERE AT 8:30 TOMORROW.

13 DR. LOMAX: WE ARE SCHEDULED FOR 8 O'CLOCK.
14 DO WE WANT TO TRY FOR 8:00 OR 8:30?

15 CHAIRMAN LO: SO IS IT THE SENSE OF THE
16 COMMITTEE, YOU WANT TO START AT 8:00 OR 8:30? THE
17 SOONER THE START, THE SOONER WE FINISH. WHAT YOU ARE
18 REALLY DOING IS ALLOWING THOSE IN SAN FRANCISCO --

19 DR. LOMAX: WE WERE ANTICIPATING FINISHING
20 AROUND NOON.

21 CHAIRMAN LO: DOES IT MATTER TO ANYBODY?

22 DR. PETERS: I PREFER 8:30, BUT I'LL MAKE IT
23 8 O'CLOCK.

24 CHAIRMAN LO: ANYONE HAVE A STRONG FEELING
25 FOR MAKING IT EIGHT? IF NOT, HOW ABOUT 8:30? ARE WE

1 ALLOWED TO DO THAT BECAUSE WE PUBLICLY ANNOUNCED?

2 MR. TOCHER: THE ONLY PROBLEM WOULD BE IF YOU
3 WERE TRYING TO MOVER IT EARLIER. IT JUST MEANS PEOPLE
4 WOULD COME HERE AND COOL THEIR HEELS FOR A WHILE.

5 CHAIRMAN LO: THANK YOU VERY MUCH.

6 (THE MEETING WAS THEN RECESSED AT 07:39
7 P.M. TO RECONVENE AT 8:30 A.M. ON MAY 10TH, 2007.)

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REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE THE SCIENTIFIC AND MEDICAL ACCOUNTABILITY STANDARDS WORKING GROUP OF THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED BELOW

MIYAKO HOTEL
1625 POST STREET
SAN FRANCISCO, CALIFORNIA
ON
MAY 9, 2007

WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CSR 7152
BARRISTER'S REPORTING SERVICE
1072 S.E. BRISTOL STREET
SUITE 100
SANTA ANA HEIGHTS, CALIFORNIA
(714) 444-4100

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